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THE CITY RECORD.

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DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

PUBLIC NOTICE.

CHANGES IN THE ELECTRICAL RULES AND REGULATIONS, DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, BUREAU OF ELECTRICAL INSPECTION.

Department of Water Supply, Gas and Electricity,
Nos. 13 to 21 Park Row,
New York, November 30, 1909.

Beginning December 1, 1909, the interior wiring rules of the City, comprising Classes A and C, included on pages 32 to 42, and 48 to 85, inclusive, of the City's rules and regulations, will be withdrawn. On that date the interior wiring rules of the National Electrical Code, edition of 1909, as included in Class A—Stations and Dynamo Rooms, and Class C—Inside Work, will become effective, with the following modifications, which are rendered necessary by local conditions:

8-c—Omit the third paragraph, relating to overload release devices.

14-b—Change the first sentence, to read as follows: "If tie wires are used, they must have an insulation of the same type as that of the conductors they confine, and must be of such a size as to afford ample mechanical security."

21-a, 22-a—Add the following sentence to the end of the first paragraph: "Departure from this rule may be authorized only under special permission in writing, given in advance."

21-d—Omit the fifth paragraph, relating to link fuse rosettes.

24-g—Omit the note under this rule, and add the following sentence as a second sentence of the rule: "Slow-burning insulation may be used only under special permission in writing, given in advance."

24-h—Omit the third paragraph, relating to the neutral of an Edison system.

24-q to u, inclusive—Omit these rules, which relate to concealed "knob and tube" work.

24-A-b, 25-d—After "plate" add the words "or other approved device."

25-b—Add to the end of the second paragraph the following sentence: "Departure from this rule may be authorized only under special permission in writing, given in advance."

25-A-b—In the second paragraph omit the first clause and begin the paragraph "where the mechanical strength," etc.

27-b—For the words "'waterproof' sockets" substitute the words "weatherproof sockets especially approved for the location."

31-A—Omit from the general note the words "which is capable of seating at least 400 persons."

31-A-a—Omit the notes under paragraphs 1 and 2, and add the following sentence at the end of paragraph 1: "Departure from this rule may be authorized only under special permission in writing, given in advance."

31-B-i—Insert after the word "wires" the following words: "Connected to open terminal receptacles not enclosed in outlet boxes."

36-c—Omit the words "thoroughly insulated from the ground or."

Respectfully,

JOHN H. O'BRIEN, Commissioner.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

No. 154 NASSAU STREET, NEW YORK CITY.

CALENDAR OF HEARINGS.

The following hearings will be held during the remainder of the week commencing Monday, November 29, 1909:

Friday, December 3—11:00 a. m.—Room 305.—CITY OF NEW YORK AND DEGNON CONTRACTING CO.—"Arbitration of determination of Henry B. Seaman, Chief Engineer."—H. H. Whitman, of Counsel.

2:30 p. m.—Room 305.—Case No. 1177.—INTERBOROUGH RAPID TRANSIT CO.—"Lighting of cars and stations."—Commissioner Eustis.

Regular meetings of the Commission are held every Tuesday and Friday at 11:30 a. m. in Room 310.

POLICE DEPARTMENT.

November 17, 1909.

The following proceedings were this day directed by Police Commissioner William F. Baker:

On reading and filing communication from Edward Hendron, declining appointment as Patrolman on probation at the present time.

Ordered, That the appointment of Edward Hendron as Patrolman on probation in the Police Department of The City of New York, be and is hereby revoked.

On reading and filing communication from Edward C. Thayer, Jr., declining appointment as Patrolman on probation at the present time.

Ordered, That the appointment of Edward C. Thayer, Jr., as Patrolman on probation in the Police Department of The City of New York, be and is hereby revoked.

Referred To the Comptroller.

Police Department Fund (Sites and Buildings), $22,856.

Ordered To Be Paid

Contingencies, 1909, $800.

From Pension Fund, sick time of Patrick W. Leonard and eighteen others, $1,067.42.

Granted.

Application of Charles Kuhn, Patrolman, First District, to be reimbursed for civilian overcoat damaged October 29, 1909, worth thirty-five dollars.

Application of Michael Murphy, Patrolman, Seventeenth Precinct, to be reimbursed for dress uniform trousers destroyed October 17, 1909.

Application of Henry J. Rice, Patrolman, Fifteenth Precinct, to be reimbursed for pair of uniform dress trousers, destroyed November 5, 1909.

Masquerade Ball Permits Granted.

C. H. Johnson, Shore Road Casino, Brooklyn, November 24; fee, $10.
L. Hillen, Hillen's Hall, Queens, November 20; fee, $10.
E. Weiden, Columbia Hall, Queens, November 24; fee, $10.

On File, Send Copy.

Report of Lieutenant in command of Boiler Squad, dated November 16, 1909, relative to engineers' licenses granted. For publication in the CITY RECORD.

Special Orders Nos. 325 and 326, issued this day, are hereby made part of the proceedings of the Police Commissioner.

Special Order No. 325.

Employed on probation as Doorman:

George W. Price, having been employed on probation as Doorman, is assigned to Eighth Precinct, to take effect 6 p. m., November 15, 1909.

The following transfers and assignments are hereby ordered:

To Take Effect 8 p. m., November 17, 1909.

Captains Frederick W. Martens, from Bridge Precinct D to Thirty-fifth Precinct; Jacob Brown, from Thirty-first Precinct to Bridge Precinct D; Edward P. Hughes, from Thirty-fifth Precinct to Thirty-first Precinct.

To Take Effect 8 p. m., November 18, 1909.

Sergeant Edward J. Manchester, from Harbor Precinct to Twenty-fifth Precinct.

Patrolman Michael Fannon, from Two Hundred and Seventy-sixth Precinct to Twenty-first Precinct.

Transferred and Assigned to Bicycle Duty.

Patrolmen Martin J. Moore, from First Precinct to Thirty-second Precinct; Louis P. Marschall, from Thirty-fifth Precinct to Thirty-ninth Precinct; Harry F. Bresnan, from Twelfth Precinct to Twenty-eighth Precinct; Charles J. McCarthy, from Sixty-fifth Precinct to Thirty-sixth Precinct; John J. Donegan, from Twenty-second Precinct to Thirty-second Precinct.

The following temporary assignments are hereby ordered:

Inspectors William G. Hogan, First Inspection District, assigned to command Thirteenth Inspection District, in addition to First and Second Inspection Districts, during absence of Inspector John D. Herlihy, for eighteen hours, from 8 a. m., November 23, 1909; John Daly, Second Inspection District, assigned to command First Inspection District, in addition to his own District, during absence of Inspector William G. Hogan, for eighteen hours, from 2 p. m., November 18, 1909; Miles O'Reilly, Eleventh Inspection District, assigned to command Fifteenth Inspection District, in addition to his own district, during absence of Inspector John J. O'Brien on vacation, for three days, from 12.01 a. m., November 17, 1909.

Lieutenants Thomas M. Hughes, One Hundred and Forty-eighth Precinct, assigned to command precinct, during absence of Captain Bernard Gallagher on vacation and with special leave, from 12 noon, November 23, 1909; Garrie W. Carman, Two Hundred and Seventy-eighth Precinct, assigned to command precinct, during absence of Captain Charles C. Wendell, on vacation, from 12 noon, November 20, 1909.

Sergeants Edward J. Quinn, Seventh Precinct, assigned to Tenth Inspection District, during absence of Lieutenant George Cullum on vacation, from 8 a. m., November 17, 1909; Edward Hallahan, Twenty-ninth Precinct, assigned as Acting Lieutenant in precinct, during absence of Captain and Lieutenants on twenty-four hour special leave; Michael J. Mulhall, Harbor Precinct, Station A, assigned as Acting Lieutenant in precinct during absence of Lieutenant Charles G. Paulding on sick leave, from 8 a. m., November 15, 1909; Patrick Sugrue, Second Precinct, assigned as Acting Lieutenant in precinct, during absence of Lieutenant Andrew Devery, with leave, from 8 a. m., November 15, 1909.

Patrolmen Michael J. Nilon and Albert J. McDonald, Forty-third Precinct, assigned to Sixth Inspection District, duty in plain clothes, for ten days, from 8 p. m., November 18, 1909; Nelson J. Greenison, Seventy-fourth Precinct, assigned to duty at telephone booth, Spuyten Duyvil parkway and Riverdale avenue, during absence of Bicycle Patrolman Francis S. Manwaring on vacation, from 12.01 a. m., November 17, 1909; James F. McCoy, Fifteenth Precinct, assigned to First Inspection District, duty

in plain clothes, during absence of Patrolman Joseph C. Thellusson on vacation, from 12 noon, November 18, 1909; Thomas C. Dines, One Hundred and Fifty-first Precinct, assigned to Harbor Precinct, Station A, for ten days, from 8 p. m., November 18, 1909.

The following extensions of temporary assignments are hereby ordered:

Patrolmen George F. Mahoney, Seventh Precinct, and Anthony Giunta, Twenty-fifth Precinct, to Fourth Inspection District, duty in plain clothes, for ten days, from 8 p. m., November 19, 1909; John J. Morrisey, Seventh Precinct, and James E. Riley, Fifth Precinct, to Second Inspection District, duty in plain clothes, for ten days, from 8 a. m., November 17, 1909.

The following members of the Force are excused for eighteen hours, as indicated:

Borough Inspector George R. Holahan, from 8 a. m., November 20, 1909, with permission to leave city.

Inspectors William G. Hogan, First Inspection District, from 2 p. m., November 18, 1909; John D. Herlihy, Thirteenth Inspection District, from 8 a. m., November 23, 1909.

Captains Horatio N. Young, Eighty-first Precinct, from 8 a. m., November 24, 1909; Patrick Murphy, Ninety-ninth Precinct, from 12.01 a. m., November 23, 1909; Bernard J. Hayes, One Hundred and Forty-sixth Precinct, from 8 a. m., November 18, 1909, with permission to leave city; Robert E. Dooley, One Hundred and Sixtieth Precinct, from 2 p. m., November 19, 1909; William A. Coleman, One Hundred and Sixty-first Precinct, from 12 noon, November 18, 1909, with permission to leave city; Lincoln Gray, One Hundred and Sixty-second Precinct, from 6 a. m., November 18, 1909; Francis A. Creamer, One Hundred and Sixty-sixth Precinct, from 10 a. m., November 20, 1909, with permission to leave city.

The following leaves of absence are hereby granted with full pay:

Borough Inspector George R. Holahan, for ten days, from 12.01 a. m., November 21, 1909, with permission to leave city, to be deducted from vacation.

Inspector John J. O'Brien, Fifteenth Inspection District, for three days, from 12.01 a. m., November 17, 1909, with permission to leave city, to be deducted from vacation.

Captains James J. Shevlin, One Hundred and Fifty-fourth Precinct, for ten days, from 12 noon, November 20, 1909, with permission to leave city, to be deducted from vacation; Henry Halpin, Two Hundred and Eighty-first Precinct, for four and one-half days, from 12 noon, November 25, 1909, to be deducted from vacation.

Lieutenants Daniel A. Kerr, Detective Bureau, Manhattan, for three days, from 8 a. m., November 15, 1909; James F. Kerr, One Hundred and Seventieth Precinct, for three days, from 8 a. m., November 15, 1909.

The following leaves of absence are hereby granted with half pay:

Patrolmen George J. Ryan, Seventy-fourth Precinct, for one-half day, from 12.01 a. m., November 15, 1909; John E. Cahill, One Hundred and Fifty-second Precinct, for one-half day, from 12.01 a. m., November 17, 1909, with permission to leave city.

The following leaves of absence are hereby granted without pay:

Patrolmen Frederick W. Schmidt, Eighteenth Precinct, for three days, from 12 noon, November 19, 1909; James McNamara, Fortieth Precinct, for three days, from 12 noon, November 18, 1909; William O'Brien, Bridge Precinct D, for three days, from 12.01 a. m., November 23, 1909.

The following applications for full pay are hereby granted:

Patrolmen William J. Tobin, Sixth Precinct, from 11.45 a. m., September 23, 1909, to 12 noon, October 5, 1909; Francis C. Trainor, Traffic Precinct C, from 10.30 a. m., August 28, 1909, to 12.01 a. m., September 23, 1909.

The following advancements to grades are hereby ordered:

The grade checks for the following named Patrolmen will be ready for payment at the office of the City Paymaster on or about December 3, 1909:

To $1,250 Grade, October 26, 1909—

Alfred Blass, Second Precinct; Thomas Blake, Fifth Precinct; Edward S. Gardner, Seventh Precinct; William Delaney, Seventh Precinct; Joseph F. Blauvelt, Eighth Precinct; John E. McGloin, Ninth Precinct; Martin Walsh, Ninth Precinct; Nicholas F. P. Harfst, Tenth Precinct; Walter E. Gramer, Fourteenth Precinct; Thomas J. Gallagher, Fourteenth Precinct; John L. Schneider, Fifteenth Precinct; Maurice J. Fein, Fifteenth Precinct; Joseph V. Freud, Fifteenth Precinct; Charles B. Koerbacher, Seventeenth Precinct; Harry Hughes, Eighteenth Precinct; Peter E. McConnon, Eighteenth Precinct; Frank V. Silva, Eighteenth Precinct; Thomas J. Donohue, Nineteenth Precinct; Thomas O'Connell, Twenty-first Precinct; George A. Pattison, Twenty-third Precinct; Arthur A. Etschells, Twenty-third Precinct; Joseph W. Finegan, Twenty-sixth Precinct; Joseph B. Coleman, Twenty-sixth Precinct; Patrick H. Daniels, Thirty-first Precinct; John F. Baer, Twenty-ninth Precinct; Patrick J. Neville, Thirty-first Precinct; Daniel W. Barry, Thirty-first Precinct; Henry E. Gerken, Thirty-sixth Precinct; Patrick L. Short, Thirty-first Precinct; Matthew A. Neely, Thirty-sixth Precinct; Michael J. Ryan, Thirty-sixth Precinct; William P. Martin, Thirty-sixth Precinct; John D. McGahan, Thirty-sixth Precinct; Charles Witzman, Fortieth Precinct; Francis X. Knowles, Thirty-ninth Precinct; John F. Cook, Eighty-first Precinct; Frederick E. Ruggles, Eighty-first Precinct; William J. Maloney, One Hundred and Forty-fourth Precinct; William A. Hartery, One Hundred and Forty-third Precinct; Bernard J. McQuade, One Hundred and Forty-sixth Precinct; Thomas H. Liddy, One Hundred and Forty-fourth Precinct; John J. Flood, One Hundred and Fiftieth Precinct; John P. E. Forristall, One Hundred and Forty-ninth Precinct; Martin Vollkommer, One Hundren and Fifty-third Precinct; Charles Zerweck, One Hundred and Fifty-third Precinct; William M. McDonald, One Hundred and Fifty-seventh Precinct; Thomas Gibbons, One Hundred and Fifty-sixth Precinct; John A. Hoar, One Hundred and Sixty-fourth Precinct; John E. Hurley, One Hundred and Sixty-second Precinct; James F. Timoney, One Hundred and Sixty-fourth Precinct; John Haffner, One Hundred and Sixty-fourth Precinct; Thomas Collins, One Hundred and Sixty-ninth Precinct; William Seckinger, One Hundred and Sixty-fifth Precinct; Thomas H. Rorke, One Hundred and Seventy-second Precinct; Roland E. Chattaway, One Hundred and Seventy-first Precinct; Philip H. Endress, One Hundred and Seventy-second Precinct; James B. Maloney, One Hundred and Seventy-second Precinct; Clement A. Christensen, One Hundred and Seventy-second Precinct; Walter J. F. Cunningham, One Hundred and Seventy-second Precinct; Henry K. Boch, Two Hundred and Eighty-third Precinct; Anthony J. Battle, One Hundred and Seventy-third Precinct; Patrick M. Sammons, Fifth Inspection District; James F. Smith, Two Hundred and Ninetieth Precinct; William H. Flynn, Traffic Precinct A; Harry F. McCrossen, Tenth Inspection District; Charles B. Smith, Traffic Precinct B; James Hanlon, Traffic Precinct A; Patrick Calligan, Traffic Precinct B; Christopher T. Cummiskey, Detective Bureau, Brooklyn; Edward J. O'Brien, Post Office Squad.

To $1,350 Grade, October 14, 1909—Owen P. McConnell, First Precinct; Charles J. McCarthy, Sixty-fifth Precinct; Timothy McKeogh, Two Hundred and Seventy-sixth Precinct.

The following amendment is hereby ordered:

So much of Special Order 324, current series, paragraph 5, as grants Patrolman William Bannon, Traffic Precinct C, leave of absence, from 12.01 a. m., November 16, 1909, is amended to read 12.01 a. m., November 18, 1909.

The resignations of the following Special Patrolmen are hereby accepted:

John F. Leahy, employed by Interborough Rapid Transit Company, No. 165 Broadway, Manhattan; Charles Mueller, employed by National Bank of Commerce, No. 31 Nassau street, Manhattan; Joseph Olmstead, employed by American Museum of Natural History, Seventy-seventh street and Central Park West, Manhattan.

The resignations of the following Special Patrolmen are hereby accepted, and they are reappointed:

Patrick Daly, for Interborough Rapid Transit Company, No. 165 Broadway, Manhattan; Eugene Brownworth, for A. Westheim, No. 685 Broadway, Brooklyn; Conrad Seibert, for Mercantile Safe Deposit Company, No. 120 Broadway, Manhattan; Charles Schittig, for Jacob J. Velten, No. 168 Stagg street, Brooklyn; William J. Gallagher, for European-American Bank, No. 187 Greenwich street, Manhattan; Eugene H. Costain, for New York Zoological Park, Bronx Park, The Bronx; Henry M. Landgraff, for Eimer & Amend, Eighteenth street and Third avenue, Manhattan; Jacob Brunner, for Citizens' Savings Bank, Bowery and Canal street, Manhattan; John G. Steiner, for L. Stauch, Bowery, Coney Island; Jacob Leon, for Industrial Removal Office, No. 174 Second avenue, Manhattan.

Special Order No. 326.

The following members of the Force having been tried on charges before a Deputy Commissioner, the following fines are hereby imposed:

Lieutenant William J. McGrath, Fortieth Precinct, failed to hold prisoner; three days.

Sergeant Thomas E. Enright, Two Hundred and Nineteenth Precinct, failed to signal, absent from return roll-call, reported sick; two days.

Patrolmen Charles J. Luzinski, First Precinct, did not properly patrol; one day. John Harrison, Sixth Precinct, absent from outgoing roll-call; one-half day. Lawrence J. Tormey, Seventh Precinct, absent from post, coming from hallway, failed to obtain permission, failed to report absence; one day. Joseph F. Bush, Ninth Precinct, did not properly patrol; three days. Michael F. Murray, Tenth Precinct, did not properly patrol; one day. Edward J. Mack, Twelfth Precinct, carelessly lost Police shield and manual; one day. John J. Scanlon, Fourteenth Precinct, did not properly patrol; one day. Frank X. Werner, Fifteenth Precinct, absent from outgoing roll-call; one-half day. Stephen W. Furlong, Fifteenth Precinct, sitting in polling place with uniform coat and helmet off; two days. Patrick McHugh, Fifteenth Precinct, absent from reserve roll-call; one day. Edward B. Bishop, Fifteenth Precinct, absent from post, coming from tool house, failed to obtain permission, failed to report absence; two days. John Meislohn, Sixteenth Precinct (two charges), absent from post, in lobby of hotel in conversation, one day; did not properly patrol; one day. William J. Rowland, Sixteenth Precinct, absent from post, in harness store, failed to obtain permission, failed to report absence; one day. Thomas F. Sullivan, Sixteenth Precinct, loitering in conversation; one-half day. William Speeden, Sixteenth Precinct, did not properly patrol, failed to properly relieve; two days. John Lenahan, Eighteenth Precinct, loitering and reading; one-half day. William C. Schwarz, Eighteenth Precinct, intoxicated; fifteen days. John F. Molloy, Twenty-first Precinct, absent from special post, failed to report absence; one day. Herman Neisel, Twenty-first Precinct, absent from post, coming from bakery; one-half day. John J. Wall, Twenty-first Precinct, absent from post, in restaurant; one day. Thomas J. Ryan, Twenty-second Precinct, absent from outgoing roll-call; one day. Clinton C. Palmiter, Twenty-third Precinct, failed to prevent, discover or report broken side light; one day. John W. Sullivan, Twenty-fifth Precinct, intoxicated, removed cap from person's head and threw same to floor of car; two days. Thomas E. Clune, Twenty-eighth Precinct, absent from post, coming from a boiler room; one day. Lee P. Sharpe, Twenty-eighth Precinct, absent from post, coming from hallway; one day. Patrick F. Cummings, Thirty-first Precinct, assaulted Patrolman; ten days. William E. Sheehan, Thirty-first Precinct, assaulted Patrolman; five days. Arthur A. McCreve, Thirty-second Precinct, did not properly patrol; one day. William A. Rowan, Thirty-sixth Precinct (two charges), over-indulgence in intoxicants, five days; assaulted citizen, under influence of intoxicants; ten days. Harry B. Schopper, Forty-third Precinct, used unnecessary force in effecting arrest; two days. Hector W. Hemingway, Sixty-eighth Precinct (two charges), did not properly patrol, one day; absent from relieving point; one day. Thomas Fitzpatrick, Sixty-eighth Precinct, failed to obey orders; one day. John Heidelbach, Sixty-eighth Precinct, failed to obey orders; one day. Thomas McCarthy, Sixty-eighth Precinct, failed to obey orders; one day. Thomas Shea, Sixty-eighth Precinct, failed to obey orders; one day. Samuel J. Smith, Sixty-eighth Precinct, failed to obey orders; one day. Alexander J. Weddick, Sixty-eighth Precinct, failed to obey orders; one day. Michael Mitchell, Sixty-eighth Precinct, absent from reserve duty; one day. George J. Silva, Sixty-ninth Precinct, absent from post, riding on car, failed to report absence; one day. James Flood, Eightieth Precinct, assaulted boy, absent from post; two days. Herman C. Stapf, One Hundred and Forty-third Precinct, left polling place without permission, failed to have memorandum book, failed to report absence; three days.

Patrolmen Patrick J. Flynn, One Hundred and Forty-ninth Precinct, suffering from intoxicants; ten days. Bernard C. Downs, One Hundred and Fifty-first Precinct, assaulted prisoner; three days. Harry S. Millar, One Hundred and Fifty-third Precinct, did not properly patrol; one-half day. Martin J. Hanley, One Hundred and Fifty-fifth Precinct, on adjoining post, coming from liquor saloon; five days. John A. Elliott, One Hundred and Fifty-sixth Precinct, absent from post, in rear room of liquor saloon, failed to report absence, failed to obtain permission; five days. Michael J. Maun, One Hundred and Fifty-sixth Precinct, absent from post; one day. John J. Donnelly, One Hundred and Fifty-seventh Precinct, absent without leave; one day. James J. Govern, One Hundred and Fifty-seventh Precinct, absent without leave; one day. Eugene W. Brownell, One Hundred and Fifty-ninth Precinct, failed to challenge voter; one day. Louis H. Miller, One Hundred and Fifty-ninth Precinct, failed to challenge voter; one day. Daniel B. McGuiness, One Hundred and Seventy-second Precinct, failed to obey orders; three days. John Ryan, Bridge Precinct A, absent from outgoing roll-call; one-half day. Guy R. Cobaugh, Bridge Precinct C, conversation; one day. Charles Boldermann, Bridge Precinct C, absent from post, sitting; one day. William A. Brazier, Bridge Precinct C, absent from post, sitting; one day. Stuart E. De Witt, Traffic Precinct A, failed to enforce traffic regulations; one-half day. John Bridegroom, Traffic Precinct A, failed to obey orders, rode horse, property of private citizen; one day. Charles H. Chave, Traffic Precinct B, failed to obey instructions; one-half day. Frederick W. Schmidt, Traffic Precinct C, absent from post, coming from basement of hotel, left Department horse unattended; one day. Leonard T. Wishart, Traffic Precinct C, failed to salute superior; one day. Thomas S. Brennan, Telegraph Bureau, Manhattan, failed to make prompt report; one day. De Forest Fredenberg, Harbor Precinct, Station A, absent without leave; one-half day.

The following members of the Force having been tried on charges before a Deputy Commissioner, are hereby reprimanded:

Patrolmen Alonzo C. Hubbard, Fifth Precinct; Emanuel T. J. Guilfoyle, Ninth Precinct; Bruce O. Manson, Tenth Precinct; James C. White, Twelfth Precinct; Gustave A. Renner, Fifteenth Precinct; Frank J. Neidhamer, Fifteenth Precinct; Daniel E. Keenan, Sixteenth Precinct; Henry A. Woesthoff, Sixteenth Precinct; William L. Kennedy, Sixteenth Precinct; John Gallagher, Eighteenth Precinct; Edward C. McCormack, Nineteenth Precinct; John J. Campazzi, Twenty-first Precinct; Walter P. Schiffer, Twenty-fifth Precinct; Daniel J. Croston, Twenty-ninth Precinct; Herbert H. Hollweg, Forty-third Precinct; Oscar A. J. Hague, One Hundred and Forty-fourth Precinct; Frank J. Strickland, One Hundred and Forty-ninth Precinct; Walter G. Martin, One Hundred and Sixty-second Precinct; Joseph S. Derby, One Hundred and Sixty-fifth Precinct; John P. Fitzpatrick, Traffic Precinct A; James F. Birmingham, Traffic Precinct A; William R. G. McNamara, Traffic Precinct A; Thomas S. Quinn, Traffic Precinct A; Henry J. Foley, Traffic Precinct A; John A. Morgan, Traffic Precinct B; Herman Grossberger, Traffic Precinct B; Richard Holt, Traffic Precinct C; Michael F. Egan, Traffic Precinct C; Thomas M. Reidy, Traffic Precinct C; Frank Richard, Harbor Precinct B; James McLaughlin, Detective Bureau, Manhattan.

The following members of the Force having been tried on charges before a Deputy Commissioner, the charges are hereby dismissed:

Lieutenant William F. Peabody, Detective Bureau, Manhattan.

Patrolmen Archibald Gamble, Second Precinct; Harry Bertini, Fifth Precinct; John Dugan, Seventh Precinct; John A. Gilmore, Ninth Precinct; Martin Walsh, Ninth Precinct; Thomas J. Gallagher, Fourteenth Precinct; John A. Spath, Fifteenth Precinct; Matthew J. Lauterborn, Seventeenth Precinct; Frank Kupec, Eighteenth Precinct; Fred Neidlinger (two charges), Twenty-sixth Precinct; Thomas Wawne, Twenty-eighth Precinct; James McMurray, Thirty-first Precinct; Cornelius Sheehan, Thirty-ninth Precinct; John P. Shea, Fortieth Precinct; James Bradley, Fortieth Precinct; Otto Klicpera, Sixty-fifth Precinct; Hugh McGuire, Seventy-ninth Precinct; Carl A. Nilsson, Eightieth Precinct; John Meyer, One Hundred and Forty-third Precinct; Frederick C. Mohrman, One Hundred and Forty-fifth Precinct; Charles S. Goubeaud, One Hundred and Forty-fifth Precinct; Edward J. Ryan, One Hundred and Forty-fifth Precinct; Edward L. Dermody, One Hundred and Forty-eighth Precinct; Thomas F. Mullaney, One Hundred and Fifty-fifth Precinct; William R. Gresham, One Hundred and Fifty-seventh Precinct; Peter F. Essig, One Hundred and Sixtieth Precinct; John F. Reel, One Hundred and Sixtieth Precinct; Hugh J. Cox, One Hundred and Sixty-first Precinct; Thomas B. Goodman, One Hundred and Sixty-fifth Precinct; Frank F. Bosman, One Hundred and Seventy-first Precinct; Matthew Kinnane, One Hundred and Seventy-first Precinct; Lawrence Battam, One Hundred and Seventy-third Precinct; John F. Hussey, Two Hundred and Seventy-eighth Precinct; Harry Keeton, Two Hundred and Eighty-second Precinct; William O. Scheer, Two Hundred and Eighty-fifth Precinct; Victor A. Klinot, Traffic Precinct A; James Meade, Traffic Precinct B; John Grogan, Traffic Precinct C; John W. Finn, Detective Bureau, Manhattan; Robert Roy, Sixth District Court, Brooklyn; Thomas S. Brennan, Telegraph Bureau, Manhatan.

Doorman Bernard Cummings, Eighteenth Precinct.

WM. F. BAKER, Police Commissioner.

BOARD OF ESTIMATE AND APPORTIONMENT.

(FINANCIAL AND FRANCHISE MATTERS.)

MINUTES OF MEETING OF BOARD OF ESTIMATE AND APPORTIONMENT, CITY OF NEW YORK, HELD IN ROOM 16, CITY HALL, FRIDAY, OCTOBER 29, 1909.

The Board met in pursuance of an adjournment.

Present—George B. McClellan, Mayor; Herman A. Metz, Comptroller; Patrick F. McGowan, President, Board of Aldermen; John Cloughen, Acting President, Borough of Manhattan; Bird S. Coler, President, Borough of Brooklyn; John F. Murray, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens; George Cromwell, President, Borough of Richmond.

The Mayor, Hon. George B. McClellan, presided.

FRANCHISE MATTERS.

Electric Protection Company of New York.

A communication, dated October 11, 1909, was received from the Mayor's office, returning, duly approved by his Honor the Mayor, resolution adopted by this Board October 8, 1909, fixing this day as the date for public hearing on the petition of the Electric Protection Company of New York for a franchise, and designating the "New York Herald" and "Morning Telegraph" as the two daily newspapers in which notice of such hearing shall be published.

Which was ordered filed.

The public hearing on the petition of the Electric Protection Company of New York for a franchise to construct, maintain and operate wires and other conductors, with the necessary poles, pipes, conduits and appliances, in, over and under the streets, avenues and highways within The City of New York, for the purpose of operating electrical call boxes in connection with telephones, telegraph and other systems for providing calls and signals for electric protection service, was opened.

The hearing was fixed for this day by resolution adopted October 8, 1909.

Affidavits of publication were received from the "New York Herald," "Morning Telegraph" and CITY RECORD.

No one appeared in opposition to or in favor of the proposed grant, and the Chair declared the hearing closed.

The Secretary presented the following:

REPORT NO. F-179.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 25, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—The Electric Protection Company of New York, under date of September 15, 1909, petitioned the Board for the right to lay, erect and maintain wires and other conductors in the streets and highways of The City of New York, to be used in the electrical operation of electrical call boxes for electric protection service.

This application was presented to the Board on October 8, at which time the Board fixed October 29 as the date for the preliminary public hearing, and referred the petition to the Chief Engineer.

Since that time this Division has been engaged upon the investigation of the subject of fire alarm systems and the operation of the devices which this Company proposes to use in connection with its operation. The matter will be taken up also with the Fire Commissioner, whose Department has already made some investigation of the apparatus of this Company. I expect to be able to present a report upon the application, setting forth the result of the investigations, at an early date.

It is suggested that the petition be referred back to the Chief Engineer at the close of the public hearing in order that this report may be completed.

Respectfully,
HARRY P. NICHOLS, Engineer in Charge.

Approved:
NELSON P. LEWIS, Chief Engineer.

The matter was then referred back to the Chief Engineer.

Metropolitan Street Railway Company; Dry Dock, East Broadway and Battery Railroad Company.

In the matter of the communication from the Commissioner of Water Supply, Gas and Electricity, requesting to be advised as to what course to pursue on the application of the Dry Dock, East Broadway and Battery Railroad Company for permission to open Canal street, between Centre street and the Bowery, for the purpose of installing an underground electric system.

At the meeting of October 15, 1909, a communication was received from the Chief Engineer, transmitting report from the Division of Franchises, reciting in detail the object proposed to be accomplished by the installation of the underground electric system. A communication was also received from the Receivers of the Metropolitan Street Railway Company, requesting the Board to defer taking any action until the matter could be submitted to the Committee of mortgage bondholders, and action was deferred until this day.

The Secretary presented the following:

METROPOLITAN STREET RAILWAY COMPANY,
No. 621 BROADWAY,
NEW YORK, October 22, 1909.

Board of Estimate and Apportionment of The City of New York, No. 277 Broadway, New York:

DEAR SIRS—We acknowledge the receipt of your letter of October 15, stating that you have considered our communication of October 4 in reference to the application of the Dry Dock, East Broadway and Battery Railroad Company for a permit to open Canal street for the purpose of changing the motive power on the tracks from Centre street to the Bowery, from horse power to the conduit electric system, and that action on the application would be deferred until the consideration of the next franchise calendar in order that we might obtain an expression of opinion from the bondholders committee in reference to operation over the Manhattan Bridge.

The application made by the Dry Dock Company seems to us to be entirely independent of the general question of operation over the Manhattan Bridge; but, in compliance with your request, we have communicated with the Joint Committee on Reorganization of the Metropolitan Street Railway Company in regard to the whole matter. While it is impossible under existing circumstances to make any definite proposition, we are nevertheless in a position to state generally the views of the Committee and of ourselves as to the situation.

On October 23, 1908, the Metropolitan Street Railway Company applied to your Board for a franchise to operate across the Manhattan Bridge to the Brooklyn Plaza. Under date of July 20, 1909, the Acting Mayor and Chairman of the Select Committee of your Board wrote to our general manager, stating that the Select Committee was averse to the granting of a franchise as applied for and requesting that the Metropolitan Company should submit to the Committee a petition for a franchise which should include a route running along Canal street, from Centre street to and across the Bowery, and the Manhattan Bridge and along the Flatbush avenue extension to Fulton street, Brooklyn.

As we have every reason to believe that the operation of Metpropolitan cars over the bridge to the Brooklyn plaza would not be profitable, we are not disposed to urge a vigorous dissent from the views of your Select Committee in respect to the application as made.

We are, however, unable to arrange for the filing of a petition by the Metropolitan Company for a franchise from Centre street, Manhattan, to Fulton street, Brooklyn, as suggested. Under existing laws it would be necessary for the Metropolitan Company to give transfers from the cars operating over that line to all of the surface lines of the Metropolitan Company on Manhattan Island. We are advised by our engineers that operation under such conditions could not possibly be productive of profit, and that, according to all street railroad experience, the receipts would fall very far short of paying the operating expenses. In the present financial situation of the surface lines, it is impossible for us to embark in speculative enterprises, and as the proposed extension does not hold out even a promise of a reasonable return upon the investment, we must decline to file the petition requested.

We have also considered the suggestion in the letter from the Chairman of the Select Committee under date of July 20, 1909, that the Metropolitan Company "will permit the use of tracks and track equipment in Canal street, Manhattan, by any other company to which the Board of Estimate and Apportionment may grant a franchise, upon the payment of such compensation to the Metropolitan Street Railway Company or its subsidiary or leased companies, as may be mutually agreed upon, or as may be fixed by arbitration." It is impossible for us at the present time to say whether we would permit such user. We do not know to what company the Board would grant such permission, nor has any proposal been made to us as to the terms upon which such user would be requested. In the absence of some definite proposition, we do not feel that we can commit ourselves, either to an acceptance or rejection of the suggestion made.

You have complained that we are unwilling to co-operate with you in the solution of the problem of operation over the Manhattan Bridge. That complaint is founded upon a misapprehension of our position. The question as to the most advantageous method of utilizing the facilities over the Manhattan Bridge has been under consideration by the Joint Committee on Reorganization of the Metropolitan Street Railway Company, and, to some extent, by ourselves. As at present advised, we are disposed to believe that one method, and perhaps the most advantageous one of working out this problem, would be to organize an independent company to operate from Fulton street, Brooklyn, over the bridge and through Canal street to the North River, Manhattan. The advisability of this course, however, would depend upon the terms upon which your Board would grant the franchise, the rate of fare, the arrangements with existing companies for the use of tracks, the distribution of the capital stock among the transportation companies, and the numerous other elements involved in such a large and important proposition. Moreover, the carrying through of such a scheme does not depend upon us alone. There are numerous other interests which must be consulted. The subject is an exceedingly important and intricate one, both from an engineering and a financial standpoint.

So far as we can see, the negotiations to carry through such arrangements must necessarily extend over a comparatively long period of time. We do not feel that we ought to go further at the present time than to say that we regard this plan favorably, and that, if suitable arrangements can be made, we will recommend it to the bond holders whom we represent. Our views on this subject, however, are not controlling We are merely the temporary custodians of the Metropolitan properties. All of our acts must have the approval of the Court, and in determining upon any such plan, the Court must necessarily give a hearing to the parties who have invested large sums in these properties and who must furnish the money for any new investment.

It seems to us that the application which has been made for the electrification of Canal street, from Centre street to the Bowery, is entirely independent of the general disposition of the Manhattan Bridge problem, and should be considered upon its own merits, irrespective of the larger problem involved. As we have stated to you in our previous correspondence, the tracks must be electrified by some one, whatever plan may be adopted for the solution of the general problem. That being the fact, we do not see why the City should object to our doing work at this time. It is admitted that we have the legal right to do it. It is also admitted that unless Metropolitan electric cars are run to the bridge, the usefulness of the bridge will be very much impaired, as the public has been educated to a point where horse car service is no longer satisfactory.

We have assured you of our willingness to co-operate in the solution of the general problem, and have also stated our views as to the most advantageous solution. We now beg to express to you our hope that the permit for the electrification of Canal street will be issued, so that this important and necessary work can be finished by the time the bridge is open for travel.

Yours very truly,
ADRIAN H. JOLINE,
DOUGLAS ROBINSON,
Receivers.

REPORT NO. F-182.

BOARD OF ESTIMATE AND APPORTIONMENT,
OFFICE OF THE CHIEF ENGINEER,
October 26, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, Chairman of the Board of Estimate and Apportionment:*

SIR—Under date of October 22, 1909, the Receivers of the Metropolitan Street Railway Company have addressed a communication to the Board of Estimate and Apportionment with respect to the communications from the Commissioner of Water Supply, Gas and Electricity and themselves regarding the application of the Dry Dock, East Broadway and Battery Railroad Company for a permit to install an underground electric system on Canal street, between Centre street and the Bowery, for use by the Bleecker Street and Fulton Ferry Railroad Company.

These communications were presented to the Board on October 15, 1909, with the recommendation that the Commissioner of Water Supply, Gas and Electricity be requested to refuse to issue a permit, but at the request of the Receivers of the Company the matter was laid over for two weeks to enable them to consult with their bondholders with a view to some definite understanding as to the operation of railroads on the Manhattan Bridge.

In the communication of October 22 the Receivers insist that the application of the Dry Dock Company is independent of the question of operating across the Manhattan Bridge, although they admit that unless the Metropolitan lines run to the Bridge the use of this structure will be impaired. They say that the Canal street line must be electrified at some time, and why not now? They also say that it is impossible for the Receivers or the Joint Committee on Reorganization to make a definite proposal as to an amended petition for rights to operate on the Manhattan Bridge, nor will they waive exclusive rights in Canal street.

It is believed that the granting of the permit to electrify these few blocks of Canal street would substantially weaken the City's position in dealing with these companies, and it is therefore recommended that the Commissioner of Water Supply be requested to withhold action upon the application.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 25, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—At the meeting of October 15, 1909, communications were received from the Commissioner of Water Supply, Gas and Electricity, and from Messrs. Joline and Rob-

inson, Receivers for the Metropolitan Street Railway Company, regarding an application of the Dry Dock, East Broadway and Battery Railroad Company, F. W. Whitridge, Receiver, for a permit to open Canal street, between Centre street and the Bowery, for the purpose of installing an underground electric system for use by the Bleecker Street and Fulton Ferry Railroad Company, a subsidiary company of the Metropolitan.

The communications had been previously referred to this Division, and a report had been made, which is printed in full in the minutes of that date.

The report recommended for several reasons set forth that the Commissioner of Water Supply, Gas and Electricity be requested to refuse the permit, and a resolution to that effect was presented, but, upon the request of the Receivers of the Metropolitan, the matter was laid over for two weeks to enable them to obtain a definite reply to a certain letter of inquiry dated July 20, 1909, from the Chairman of the Select Committee of the Board, to which had been referred the several applications for street railway franchises on the Manhattan Bridge.

Messrs. Joline and Robinson in a communication dated October 22, 1909, now reply, which may briefly be summarized as follows:

First—That the application of the Dry Dock is entirely independent of the general question of operation of cars on the Manhattan Bridge, but in a subsequent sentence state:

"It is also admitted that unless Metropolitan electric cars are run to the bridge the usefulness of the bridge will be much impaired."

Second—That electrification of the lines in Canal street must come some day, and why not now.

Third—That it is impossible under existing circumstances for either the Receivers or the Joint Committee on Reorganization to make a definite proposition as to an amended petition for rights on the bridge or as to waiving exclusive rights in Canal street.

The general views of the Committee and the Receivers as contained in the letter are most instructive and interesting, and would have gone far towards clearing the situation had they been expressed one year ago, but are not, in my opinion, sufficient for the Board to take favorable action on the present application of the Dry Dock Company, and thus lose an advantage which the City has at this time to compel a definite solution of the service on the Manhattan Bridge, which is now in the hands of the Select Committee. I can, therefore, see no reason to change the opinion expressed in my former report, and would recommend the adoption of a resolution requesting the Commissioner of Water Supply, Gas and Electricity, to grant no permit to the Dry Dock until he receives further word from the Board.

A form of resolution is submitted herewith.

I would further recommend that the Secretary be directed to forward a copy of the letter from the Receivers to the President of the Board of Aldermen, the Chairman of the Select Committee on the Manhattan Bridge franchises, as it is in part a reply to his communication of July 20, and may be used to great advantage in carrying on further negotiations between the Committee and those at present representing the Metropolitan Street Railway Company, and bring that matter to a conclusion, so that the Committee may report.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

The following was offered:

Whereas, The Commissioner of Water Supply, Gas and Electricity, in a communication dated October 4, 1909, which was presented to this Board at the meeting of October 15, 1909, requested to be advised how to proceed upon the application of the Dry Dock, East Broadway and Battery Railroad Company for permission to open Canal street, between Centre street and the Bowery, for the purpose of installing an underground system of electricity: and

Whereas, At the meeting of October 15, 1909, and at the meeting held this day, reports were presented to this Board from the Engineer in charge of the Division of Franchises to the Chief Engineer upon the aforesaid application; now therefore be it

Resolved, That the Commissioner of Water Supply, Gas and Electricity be and he is hereby requested to withhold action upon the application of the Dry Dock, East Broadway and Battery Railroad Company until further notice from this Board.

Which was adopted.

Union Railway Company of New York City.

In the matter of the franchise granted to the Union Railway Company of New York City to construct, maintain and operate a double track street surface railway, as an extension to its existing system, on Fordham road, and other streets and avenues in the Borough of The Bronx, and over the University Heights Bridge and its approaches, and West Two Hundred and Seventh street and other streets and avenues in the Borough of Manhattan.

This franchise was granted by resolution adopted by this Board December 18, 1908, approved by the Mayor December 21, 1908.

The Secretary presented the following:

REPORT No. F-124.

BOARD OF ESTIMATE AND APPORTIONMENT,
OFFICE OF THE CHIEF ENGINEER,
October 26, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, Chairman of the Board of Estimate and Apportionment:*

SIR—On December 18, 1908, a franchise was granted to the Union Railway Company for an extension in Fordham road and across the University Heights Bridge to the Borough of Manhattan. On the same date a franchise was granted to the same Company for an extension in Pelham avenue and one to the Bronx Traction Company, subsidiary to the Union Company, for a surface railroad in Clason Point road. Contracts for the two last-named lines have been executed by the Company and the lines have been constructed. The contract for the extension in Fordham road and across the University Heights Bridge has not been signed, as the bondholders have not agreed to the acceptance of the contract. The Receiver of the Union Railway Company has, under date of October 15, 1909, stated to the Board that the bondholders still object, but that his desire is to accept the franchise and construct the road, and he believes that the Company, when reorganized, will carry out this plan, and he therefore asks that the matter of the execution of this contract be held in abeyance for the present, avoiding thereby the expense of readvertising when there shall have been a reorganization of the Company.

The request seems a reasonable one, and it is recommended that the communication be filed and that no steps be taken to declare the contract forfeited on account of the delay.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 21, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—On December 18, 1908, the Board granted two franchises to the Union Railway Company and one to the Bronx Traction Company, a subsidiary company of the Union, for extensions in the Borough of The Bronx.

Subsequently, two of the contracts so authorized, to wit: Clasons Point road to the Bronx Traction Company and the Pelham avenue extension to the Union Railway Company, were executed by the companies and the City, and the lines have since been constructed. The third franchise to the Union was for an extension in Fordham road and across the University Heights Bridge to the Borough of Manhattan, and no contract has been entered into, as I was informed at the time when the others were signed that the bondholders would not agree to the acceptance of this contract.

Almost a year having elapsed, I called the attention of the receiver of the Union Railway Company to the state of affairs, and in a communication addressed to the Board of Estimate and Apportionment, under date of October 15, 1909, he states that the objection which he explained at the time is still in force, but that as he desires to accept the franchise and construct the road, he seems to have no doubt whatever that the Company, when reorganized, will take it up, and this reorganization, he seems to think, will take place in the near future. He therefore requests that the matter of the execution of this contract be held in abeyance for a reasonable time.

I have no objections to offer to this, for the reason that there is no other applicant for the right, and if the receiver is not permitted by his bondholders to execute the contract, I have no desire to put an additional burden for advertising upon the road when it shall have been reorganized.

I would therefore suggest that the request be filed and the matter lie in abeyance. I will report to the Board further on the matter as soon as the reorganization takes place.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

The papers were ordered filed and the execution of the contract held in abeyance.

Long Island Railroad Company.

In the matter of the consent granted to the Long Island Railroad Company to construct, maintain and operate a temporary sidetrack or switch upon and along Range avenue, Borough of Queens:

This consent was granted by resolution adopted by this Board December 18 1908, approved by the Mayor December 21, 1908.

At the meeting of September 17, 1909, a communication was received from the Chief Engineer, transmitting report from the Division of Franchises, stating that, although the Company declined to accept the grant, the track had been constructed, and, by resolution duly adopted, the Company was directed to pay into the Treasury of The City of New York, on or before October 1, 1909, the sum of one hundred dollars ($100), for the use and occupation of the streets by the said track.

The Secretary presented the following:

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
October 13, 1909.

Mr. HARRY P. NICHOLS, *Engineer in Charge, Division of Franchises, Board of Estimate and Apportionment,* No. 277 Broadway, New York City:

SIR—In pursuance of a resolution of the Board of Estimate and Apportionment adopted September 17, 1909, a demand was made by the Department of Finance on the Long Island Railroad Company for the payment of one hundred dollars ($100) for the privilege of a side track or switch in and along Bullet street and Range avenue, Creedmoor, Borough of Queens, in reply to which a communication has been received from the State Commission in Lunacy of the State of New York, of which I herewith transmit a copy for your information and such action as you may deem advisable.

Yours respectfully,

H. A. METZ, Comptroller.

"STATE OF NEW YORK, STATE COMMISSION IN LUNACY,
"ALBANY, N. Y., October 8, 1909.

"*Hon.* HERMAN A. METZ, *Comptroller, City of New York,* New York City:

"DEAR SIR—Kindly refer to your letter under date of September 20 addressed to A. B. Bierck, auditor of the Long Island Railroad Company, and referring to resolution adopted by the Board of Estimate and Apportionment September 17, 1909, ordering the Long Island Railroad Company to pay to the Comptroller of The City of New York one hundred dollars for the use and occupation of Bullet street and Range avenue, Creedmoor, by a certain side track or switch.

"This resolution was in due course referred to the State Commission in Lunacy, which caused an inquiry to be made of the actual jurisdiction of the City authorities over the said streets and their occupation.

"From the Commission's investigation it appears that in 1872 General Wingate, then a member of the National Rifle Association, purchased on behalf of the Association seventy-two acres of land at Creedmoor; that such purchase included a right of way over the strip of land now known as Range avenue, and that subsequently all the land so acquired, including the right of way over Range avenue, was conveyed to the State.

"This is the Commission's own belief in reference to this matter; and assuming its accuracy The City of New York has no jurisdiction over the said strip of land upon which the railroad spur in question has been constructed.

"A municipal corporation is a branch of the State and exercises its function as agent of the State: it does not therefore seem to be appropriate for the City authorities to dictate to the State what should be done upon the State's property.

"I have the honor to be,

"Yours very respectfully,

"T. E. McGARR, Secretary."

REPORT No. F-138.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 21, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—On September 17, 1909, there was presented to the Board a report of this Division calling attention to the fact that the Long Island Railroad Company, which had made an application on November 16, 1908, for permission to construct a temporary side track or switch in, upon and along Range avenue, in the Borough of Queens, and which had refused to accept the resolution making this grant passed by the Board at its meeting held December 18, 1908, did, notwithstanding its refusal to accept the grant, construct the said side track or switch on Range avenue in the spring of 1909.

It was recommended in the report that in fairness to other companies and individuals who have obtained revocable consents for structures in the streets, and who under such consents are required to pay for the same, that the company, which had constructed its track without authority, should be required to pay to the Comptroller as compensation for use and occupation the sum of one hundred dollars ($100) on or before October 1, 1909, and a resolution for this purpose was adopted by the Board.

It appears that the Comptroller made demand for this payment on the Long Island Railroad Company, and in reply to his demand received a communication, dated October 8, signed by T. E. McGarr, Secretary of the State Commission in Lunacy, stating that a right of way over Range avenue was acquired by the State some years ago, and therefore that the City had no jurisdiction over such avenue.

The question as to the City's jurisdiction had been previously raised by Hon. J. Edward Swanstrom, Counsel of the State Commission in Lunacy, and in order to settle the matter, on January 13, I made a request of Mr. Herman K. Endeman, Assistant Engineer in charge of the Topographical Bureau of the Borough of Queens, for information in regard thereto. In reply, on January 14, he advised that the City has an easement over Bullet street, Range avenue and Powder street, but has not title.

From an examination of Range avenue made by a member of this Division on July 16, 1909, it appears that it is laid out with a centre walk, or park, eighteen feet six inches wide, lined with trees on both sides and having two roadways thirty-nine feet wide on both sides thereof. The side track or switch begins on Bullet street, where it connects with the tracks of the Long Island Railroad, at a point west of Range avenue, running northeasterly on Bullet street on a curve to Range avenue, and thence through the centre walk or park on Range avenue to Powder street.

As it appears to have been held by the courts that where the public has an easement in a highway, though the fee to the same may be in another, the right to construct a

railroad on such highway is carved out of the public easement therein, and requires proper authority therefor, even though the company desiring to construct the same is the owner of the fee, it would seem that even if the State did own an interest in Range avenue, nevertheless the City under its Charter would be required to grant its consent before any tracks could be laid on Range avenue or Bullet or Powder streets. That the Long Island Railroad Company's officials were under the impression that the consent of the City was so required is evidenced by the filing of the Company's application for the same, and by the recitals in such application that they had applied for and obtained the consents of a majority of the property owners and the permit of the President of the Borough of Queens.

In view of the situation as it now exists, it is recommended that the Board refer this matter to the Corporation Counsel, with the request that he examine the legal question raised by the communication of the Secretary of the State Commission in Lunacy, and that if he find that the City has jurisdiction over Bullet street and Range avenue, where the track appears to be constructed at present, and that its consent is required to the construction and maintenance of the same, he take proceedings for the removal of the same and the collection of the sum of one hundred dollars for past use and occupation, as fixed by the Board in its resolution of September 17, 1909; or if he find that the Long Island Railroad Company does not require the consent of the Board, that he advise it to that effect on or before Tuesday, November 30, 1909.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

Approved:

NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, At a meeting of this Board held November 20, 1908, there was presented a petition of the Long Island Railroad Company, dated November 16, 1908, asking for the right and privilege to construct, maintain and operate a temporary side track or switch in, upon and along Range avenue, so called, in Creedmoor, Borough of Queens; and

Whereas, It appears that the temporary side track or switch thus applied for was for the purpose of hauling building material to the State lands at Creedmoor for the use of the Long Island State Hospital, which contemplated the building of a hospital on the lands at Creedmoor, under chapter 473 of the Laws of 1908, the building of such hospital being under the supervision of the State Commission in Lunacy; and

Whereas, This Board did on December 18, 1908, adopt a resolution granting this right and privilege to the Long Island Railroad Company, which said grant, however, was not accepted by the company, as required by the resolution; and

Whereas, The question as to the City's jurisdiction over this avenue having been raised, it was ascertained that the City had an easement therein; and

Whereas, The Long Island Railroad Company, without the consent of this Board, constructed the said temporary side track or switch in Bullet street and Range avenue in the spring of 1909, and has ever since maintained the same without such consent, in view of which this Board adopted a resolution at its meeting held September 17, 1909, requiring the company to pay to the Comptroller, on or before October 1, 1909, the sum of one hundred dollars ($100) for the use and occupation of said Range avenue; and

Whereas, The Comptroller made demand for the said sum on the company, and in reply thereto received a communication from the State Commission in Lunacy, dated October 8, 1909, alleging that the State had acquired the right of way over Range avenue, that it therefore has jurisdiction over the same, and that under these circumstances the City could not dictate to the State as to what should be done on its property; and

Whereas, Said communication from the State Commission in Lunacy raises a legal question as to the status of Bullet street and Range avenue, and the authority of the Long Island Railroad Company to lay down a track therein without the consent of this Board; now therefore be it

Resolved, That the Secretary of this Board be and he is hereby directed to transmit to the Corporation Counsel a copy of this resolution and of the report of the Division of Franchises, dated October 21, 1909, presented at this meeting, with the request that the Corporation Counsel investigate this matter, and if he finds the consent of this Board is required to the construction and maintenance of said track he begin proceedings looking to the removal of the same and the collection of the sum of one hundred dollars ($100) for past use and occupation; or if he find that such consent is not required that he advise this Board to that effect on or before Tuesday, November 30, 1909.

Which was adopted.

O'Neill-Adams Company.

In the matter of the consent granted to O'Neill-Adams Company to construct, maintain and operate a bridge across West Twenty-first street, west of the westerly line of Sixth avenue, Borough of Manhattan.

This consent was granted by resolution adopted by this Board June 4, 1909, approved by the Mayor June 8, 1909.

The Secretary presented the following:

O'NEILL-ADAMS COMPANY,
SIXTH AVENUE, TWENTIETH TO TWENTY-SECOND STREET,
NEW YORK, October 14, 1909.

Board of Estimate and Apportionment, City of New York, No. 277 Broadway, City:

DEAR SIRS—Pursuant to the resolution of your Board authorizing the construction of a bridge over Twenty-first street, connecting the two buildings of O'Neill-Adams Company, an installment of rent is due November 1, 1909, for one year in advance, and a bill for the same has been presented to the O'Neill-Adams Company.

The property owners on Twenty-first street, to the west of the O'Neill-Adams building, have, in various ways, protested against the erection of the proposed bridge, claiming that same would be an unlawful structure and in violation of their rights.

The trustees of Congregation Sheraith Israel, of this city, who own the property immediately adjoining the O'Neill building, have, by their attorney, presented objections and have informed us that immediately upon our taking any steps toward the erection of the structure, they will apply to the court for an injunction.

Kurzman & Frankenheimer, attorneys, representing the Rexton Realty Company and other property owners, have given us similar notices. Some of the objectors, we understand, have taken up the matter with the Bureau of Buildings, and its permit to build the bridge has been withheld up to the present time.

It is our desire to take up this question further and determine whether the proposed structure could be enjoined, and if so, whether the matter could be adjusted with those property owners who have a special interest in this matter. We therefore respectfully ask that the Board of Estimate and Apportionment grant us until December 1 to come to some conclusion in the matter, and that the Department of Finance be requested not to insist upon the payment upon November 1.

Very truly yours,
O'NEILL-ADAMS COMPANY,
By LOUIS STEWART, President.

REPORT No. F-48.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 21, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—A resolution was adopted by the Board of Estimate and Apportionment on June 4, 1909, and approved by the Mayor June 8, 1909, granting consent to O'Neill-Adams Company to construct, maintain and operate a single-span overhead bridge across West Twenty-first street, in the Borough of Manhattan, 29 feet west of the westerly line of Sixth avenue.

O'Neill-Adams Company has now presented a petition to the Board, dated October 14, 1909, requesting an extension of time of one month from November 1, 1909, in which to make the annual payment for the said bridge, as required by section 2 of the consent.

The petition recites that certain property owners on West Twenty-first street, to the westward of O'Neill-Adams Company buildings, have protested against the erection of the bridge, and have stated that application would be made to the Courts for an injunction immediately upon any steps being taken toward the erection of the structure. The petitioner states that the extension of time is desired in order that it may be determined if the proposed structure can be enjoined, and, if so, whether the matter can be amicably adjusted with the property owners.

Section 2 of the consent granted by the Board to the construction, maintenance and operation of the bridge requires the payment to the City during the first term of five years of the annual sum of $3,900, and during the second term of five years the annual sum of $4,100, such payments to be made in advance on November 1 of each year.

Section 12 of the consent provides that the bridge shall be completed by June 8, 1910. If the construction of the bridge be enjoined so that it becomes impossible to complete the structure by said date, O'Neill-Adams Company can make application to the Board for an extension of time in which to complete the structure.

In the event of the injunction being made permanent, the petitioner can properly make application to the Board for a refund of the payments made for the bridge, and which would naturally be granted by the Board, following past precedent.

I can therefore see no good reason why the present petition for an extension of one month should be entertained by the Board at this time, as there is no assurance that the question at issue will be definitely determined within such time, when the matter would again have to come before the Board.

The petitioner runs no risk in making the payments required by the consent, and I would therefore suggest that the petition be filed and the Secretary directed to forward a copy of this report to O'Neill-Adams Company.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

Approved:

NELSON P. LEWIS, Chief Engineer.

A representative of O'Neill-Adams Company appeared and requested that the extension of time applied for be granted with the understanding that no further extension of time would be requested.

The following was offered:

Whereas, The Board of Estimate and Apportionment did, by resolution duly adopted June 4, 1909, approved by the Mayor June 8, 1909, grant permission to O'Neill-Adams Company to construct, maintain and use an enclosed bridge diagonally across West Twenty-first street, Borough of Manhattan, connecting the buildings of the Company on both sides of said street, and to be used as a passageway between same, subject to certain terms and conditions; and

Whereas, Section 2 of the aforesaid resolution provides, in part, as follows:

"The said O'Neill-Adams Company, its succesors or assigns, shall pay into the treasury of The City of New York, as compensation for the privilege hereby granted, during the first term of five years, the annual sum of three thousand nine hundred dollars ($3,900), and during the second term of five years the annual sum of four thousand one hundred dollars ($4,100). Such payments shall be made in advance on November 1 of each year, provided, however, that the amount of the first payment to be made within thirty days after the approval of this consent by the Mayor shall be only that proportion of three thousand nine hundred dollars ($3,900) as the time between the approval of this consent by the Mayor and November 1 following bears to the whole year;" and

Whereas, The said O'Neill-Adams Company, in a petition this day presented to the Board, states certain property owners have protested against the construction of the proposed bridge and have signified their intention of applying to the courts for an injunction should such construction be commenced, and requests an extension of time until December 1, 1909, in which to make the payments required by section 2 of the consent; now therefore be it

Resolved, That O'Neill-Adams Company be and it is hereby granted an extension of time up to and including December 1, 1909, in which to comply with the provisions of section 2 of the consent granted to said Company by resolution adopted by this Board June 4, 1909, approved by the Mayor June 8, 1909; and be it further

Resolved, That this extension of time shall not become operative unless and until the said grantee shall duly execute an instrument, in writing, wherein said grantee shall promise, covenant and agree on its part to conform to, abide by and perform all the terms, conditions and requirements fixed and contained in the original consent granted by resolution adopted by this Board June 4, 1909, approved by the Mayor June 8, 1909, except as expressly stated herein, and file the same with the Board of Estimate and Apportionment within thirty (30) days after the approval of this consent by the Mayor, and the said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all loss or damage to persons or property which may result from the construction, maintenance or use of such bridge authorized under these resolutions.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

East River Terminal Railroad.

In the matter of the franchise granted to the East River Terminal Railroad, by contract dated March 15, 1909, to construct, maintain and operate certain railroad tracks across Kent and Wythe avenues, Borough of Brooklyn.

The Secretary presented the following:

REPORT No. F-106

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 25, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—The contract, dated March 15, 1909, between The City of New York and the East River Terminal Railroad, granting to said Company the right to construct, maintain and operate railroad tracks across Wythe and Kent avenues, in the Borough of Brooklyn, provides, in part, as follows:

First—The railroad to be completed and in full operation within six months from the date of obtaining the consents of the abutting property owners.

In a report of this Division, under date of April 20, 1909, presented at a meeting of the Board of Estimate and Apportionment held April 30, 1909, it was recommended that this time be computed from the date of recording said consents, namely, April 13, 1909. Under this interpretation the time for the completion of the railroad expired October 13, 1909.

Second—In the event of the tracks being constructed at grade, the Company to erect, maintain and operate gates on either side of said tracks on Kent and Wythe ave-

nues, and, in addition, a flagman to be stationed at the intersection of Kent avenue and North Fourth street.

From an examination made by a representative of this Division on October 21, 1909, it appears that all of the foregoing conditions have been complied with by the Company and that the tracks have been laid at grade across Kent and Wythe avenues, as described in the contract.

This report is made in order to complete the record in this case, and it is recommended that the same be filed.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

Approved:

NELSON P. LEWIS, Chief Engineer.

Which was ordered filed.

Coney Island and Brooklyn Railroad Company.

A petition was received from the Coney Island and Brooklyn Railroad Company for a revocation of the consent granted by resolution adopted by this Board December 21, 1906, approved by the Mayor December 26, 1906, permitting said company to construct, maintain and operate a single track spur from its northerly track in Water street, at Dock street, crossing its southerly track to property leased by the American Express Company on the southeast corner of Water and Dock streets, Borough of Brooklyn, and a refund of the security deposited under the terms and conditions of said consent.

Which was referred to the Chief Engineer.

The New York Edison Company.

In the matter of the consent granted to the New York Edison Company by resolution adopted by this Board June 25, 1909, approved by the Mayor June 29, 1909, permitting said company to construct, maintain and use an enclosed bridge over and across East Thirty-ninth street, east of First avenue, Borough of Manhattan, connecting the power houses of the company on both sides of said street.

A petition was received for permission to amend the plan to permit the construction of certain ducts in the ceiling of the bridge, instead of in the floor construction, and also to install twelve additional pipes along the east side of the bridge, for the purpose of carrying telephone, signal and indicating wires connecting the switchboards of the two stations.

Which was referred to the Chief Engineer.

New York, New Haven and Hartford Railroad Company.

A petition was received from the New York, New Haven and Hartford Railroad Company for an extension of time until October 1, 1910, in which to comply with the provisions of the agreements dated December 21, 1904, and June 30, 1906, requiring the construction of certain bridges over public highways in the Borough of The Bronx

Which was referred to the Chief Engineer.

New York, New Haven and Hartford Railroad Company.

A petition was received from the New York, New Haven and Hartford Railroad Company for a cancellation of the bond covering the six-tracking of the Harlem River and Port Chester Railroad, and substituting in lieu thereof a smaller bond, as the construction has been fully completed, except at One Hundred and Seventy-fourth street and at Main avenue, Baychester, where it is alleged such construction has been delayed through the fault of the City.

Which was referred to the Chief Engineer.

New York Central and Hudson River Railroad Company, Richmond Light and Railroad Company, New York and Queens County Railway Company, Flatbush Gas Company.

Communications (4) were received from the Mayor's office, as follows:

(a) Returning, duly approved by his Honor, the Mayor, on October 11, 1909, resolution adopted by this Board October 8, 1909, granting to the New York Central and Hudson River Railroad Company an extension of time until November 1, 1909, in which to complete the construction of the foot bridge over the tracks of said Company at Park avenue and One Hundredth street, Borough of Manhattan.

(b) Returning, duly approved by his Honor, the Mayor, resolution adopted by this Board October 8, 1909, fixing November 12, 1909, as the date for public hearing on the petition of the Richmond Light and Railroad Company for a franchise, and designating the "Staten Island World" and "Richmond County Advance" as the two daily newspapers in which notice of such hearing shall be published.

(c) Designating the "Long Island City Daily Star" and the "Flushing Evening Journal" as the two daily newspapers in which the resolution, form of contract and notice of hearing thereon, for the grant of a franchise to the New York and Queens County Railway Company, shall be published previous to the final hearing, on November 12, 1909.

(d) Designating the "Brooklyn Citizen" and the "Brooklyn Standard Union" as the two daily newspapers in which the resolution, form of contract and notice of hearing thereon, for the grant of a franchise to the Flatbush Gas Company, shall be published previous to the final hearing, on December 3, 1909.

Which were ordered filed.

Metropolitan Life Insurance Company.

A communication was received from the Commissioner of Water Supply, Gas and Electricity, stating the Metropolitan Life Insurance Company is maintaining two tunnels across East Twenty-fourth street, from No. 10 to the annex at No. 15, Borough of Manhattan, without authority, and, in addition, there is a subway, consisting of thirty-six ducts, laid parallel to and just outside of one of the tunnels, twenty-four ducts being in use.

Which was referred to the Chief Engineer.

Number One Hundred and Eleven Broadway.

In the matter of the communication from the Commissioner of Water Supply, Gas and Electricity, calling attention to the existence of a tunnel in Thames street and Broadway, running parallel to the westerly curb of Broadway, and connecting premises Nos. 111 and 115 Broadway, Borough of Manhattan:

This communication was presented to the Board at the meeting of September 17, 1909, and was referred to the Chief Engineer. The communication is printed in full in the minutes of that date.

The Secretary presented the following:

REPORT No. F-184.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 277 BROADWAY,
October 26, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—The Commissioner of Water Supply, Gas and Electricity, in a communication dated August 30, 1909, called the attention of the Board of Estimate and Apportionment to the existence of a tunnel under Thames street and Broadway, running parallel to the westerly curb of Broadway and connecting premises Nos. 111 and 115 Broadway, Borough of Manhattan.

This communication was presented to the Board at the meeting of September 17, 1909, and was referred to the Chief Engineer.

I caused an investigation to be made upon the ground and found that the tunnel complained of lies underneath a tunnel connecting the subway station at Wall street on the westerly side of Broadway, and connects the basements of Nos. 111 and 115 Broadway. The tunnel contained a small cable and some wires. The inner wall of the tunnel complained of is part of the building wall, and the outer wall is partially used as a foundation for the outer wall of the tunnel connecting with the subway station, and is also a portion of the wall of the subway proper.

The wires and cable contained in this tunnel have now been removed. The tunnel has been filled in with ashes and two retaining walls have been constructed.

In a communication dated September 20, 1909, R. G. Babbage, president, Number One Hundred and Eleven Broadway, states that what is referred to as a tunnel is in reality a space which was left under the tunnel of the subway road during the construction of the present building, and he concludes with the statement:

"My position has been uniform in this matter to the effect that we do not want any tunnel and did not claim any rights to maintain it."

In this connection your particular attention is called to the fact that in all cases where the use of structures in the City streets was no longer required, it has been the uniform policy of the Board to direct the removal of same before considering any applications for the revocation of the consents under which such structures were constructed, or a refund of any security deposited under the terms and conditions of such consents. In this case, however, the tunnel complained of was apparently constructed without authority, and consequently no security has been deposited nor has any bond or agreement of any kind been placed on file in any of the City Departments.

In the particular case under discussion, it does not appear that it would be advisable to require the company to remove the structure from the surface of the street in consequence of the peculiarity of such construction, and as the tunnel has been filled in and the ends closed up and as the company does not desire to use the tunnel it would appear that any action by the Board is unnecessary.

Under the circumstances, I would recommend that the papers in connection therewith be filed, and a copy of this report forwarded to the Commissioner of Water Supply, Gas and Electricity.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.

Approved:

NELSON P. LEWIS, Chief Engineer.

Which was ordered filed, and the Secretary directed to forward a copy of the report to the Commissioner of Water Supply, Gas and Electricity.

Nassau Electric Railroad Company.

In the matter of the petition of the Nassau Electric Railroad Company for a franchise to construct, maintain and operate four extensions to its existing street surface railway, Borough of Brooklyn:

At the meeting of January 22, 1909, the Select Committee presented a report, recommending that a franchise be granted for one of the extensions applied for, from the intersection of Atlantic and Alabama avenues, along Alabama avenue to Livonia avenue, and on Livonia avenue, from Vesta avenue to New Lots road, and the matter was referred to the Chief Engineer for an examination of the proposed route and consultation with representatives of the Company.

At the meeting of January 29, 1909, a communication was received from the Chief Engineer, transmitting report from the Division of Franchises, as a result of an examination of the status of the various streets upon which it was proposed to operate, and the matter was referred to the President of the Borough of Brooklyn for action upon the recommendations outlined in the report.

The Secretary presented the following:

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN.
BROOKLYN, October 21, 1909.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment:*

DEAR SIR—Under date of January 29, you wrote me in the matter of a report made by Mr. Harry P. Nichols, Enginer in charge of the Bureau of Franchises, to the Chief Engineer of the Board of Estimate and Apportionment, relative to the report presented by the Select Committee at the meeting of January 22, 1909, in favor of a franchise being granted to the Nassau Electric Railroad Company and inclosed a copy of Mr. Nichols' report.

The franchise applied for by the railroad company, and favorably reported upon by the Select Committee, is for the right to construct, maintain and operate an extension to its existing lines as follows, known as Route "A":

"Beginning at the intersection of Atlantic avenue and Alabama avenue and extending thence southerly on Alabama avenue to Livonia avenue; on Livonia avenue, from Vesta avenue to Van Sicklen avenue; on Van Sicklen avenue, from Livonia avenue to Dumont avenue, and on Dumont avenue, from Van Sicklen avenue to Berriman street, there connecting with a franchise previously granted to the Nassau Electric Railroad Company on Berriman street to Sutter avenue, and thence on Sutter avenue easterly to the old Brooklyn city line, at or near Forbell avenue, under and pursuant to franchise granted by the City of Brooklyn to the Kings County Electric Railroad Company (now merged with the Nassau Electric Railroad Company), by resolution of the Common Council adopted June 19, 1893."

In Mr. Nichols' report it is recommended that this entire matter be referred to me for the purpose of:

"First—Recommending to the Board of Estimate and Apportionment the widening of the roadways on Alabama avenue, between Atlantic and Livonia; Van Sicklen avenue, Livonia to Dumont avenue; Berriman street, Dumont avenue to Sutter avenue, if he deems it advisable that a grant for a double-track street surface railway should be made in such streets.

"Second—Directing his Topographical Bureau to place the facts in regard to the status of the following streets before the Corporation Counsel, and to obtain his opinion as to whether a dedication for public use has been made, in order that a franchise may be granted.

"(a) Alabama avenue, Atlantic avenue to Pitkin avenue.

"(b) Berriman street, between Dumont avenue and Sutter avenue, and Sutter avenue between Milford street and Euclid avenue.

"Third—By furnishing the Bureau of Street Openings with the maps required for the opening of Livonia avenue, as authorized by the Board of Estimate on June 26, 1908, in order that an application may be made to the Supreme Court for the appointment of Commissioners.

"Fourth—After said Commissioners have been appointed, an application to the Board of Estimate and Apportionment to vest title in said streets."

In the matter of widening roadways of the streets and avenues above mentioned I find that such a step will be necessary to comply with section 59 of revised ordinances affecting the Borough of Brooklyn, which states that it shall not be lawful for

any railroad company to lay more than a single track on any street which shall have a roadway not exceeding 30 feet in width.

The Select Committee, of which I am a member, having reported favorably on this application, I referred the question of roadway widths to the Chief Engineer of the Bureau of Highways of this Borough and under date of April 13 received his report, a copy of which is attached, giving the estimated cost of making the various roadway width changes.

In my opinion a width of 34 feet is adaptable over the proposed route and would seem ample for a double track street surface railway without a further encroachment on the sidewalk area, and recommendation is hereby made to the Board of Estimate and Apportionment to widen the roadways on Alabama avenue, between Atlantic avenue and Livonia avenue; Van Sicklen avenue, between Livonia avenue and Dumont avenue and Berriman street, between Dumont avenue and Sutter avenue to 34 feet, giving this uniform width throughout.

In the matter of Alabama avenue, from Atlantic avenue to Pitkin avenue the Corporation Counsel rendered an opinion under date of October 31, 1908, a copy of which is attached, to the effect that this portion of the street has been sufficiently dedicated to public use to authorize the further improvement of the same without the intervention of condemnation proceedings.

In reply to a request from this office enclosing a statement of facts to the Corporation Counsel in regard to the status of Berriman street, between Dumont avenue and Sutter avenue, I received under date of October 6, 1909, an opinion, a copy of which is attached, advising me that Berriman street between New Lots avenue and Sutter avenue, which includes Berriman street between Sutter avenue and Dumont avenue, has been legally dedicated and may be treated as a public street.

In the matter of Sutter avenue, between Milford street and Euclid avenue, the Corporation Counsel advised me under date of June 30, as follows:

"In regard to Sutter avenue, between Milford street and Euclid avenue it appears from the statement of facts that there are no buildings fronting on the street and that a portion of the land therein is a high embankment over a sewer, and that irregular wagon tracks extend along the top of this embankment. This is not sufficient evidence of the dedication of this street for public use and I so advise you."

The New Lots Local Board on March 11 initiated proceedings for the opening of Sutter avenue, from Milford street to Euclid avenue, a distance of about 1,400 feet, and the resolution has been transmitted to the Board of Estimate and Apportionment where it now awaits approval.

Regarding the present status of Livonia avenue, Commissioners were appointed on May 21, 1909, and filed their oaths of office on June 8, 1909.

It is recommended to the Board that the vesting of title be determined by resolution at such time as it is deemed necessary to provide for the actual construction of this railroad or other physical improvement authorized.

I believe this answers the questions referred to me in this matter and the way appears to be clear for action by the Board, with the exception of the opening of Sutter avenue, between Milford street and Euclid avenue, as noted.

Yours truly,

BIRD S. COLER, President, Borough of Brooklyn.

LAW DEPARTMENT, OFFICE OF THE CORPORATION COUNSEL,
NEW YORK, October 6, 1909.

Hon. BIRD S. COLER, *President of the Borough of Brooklyn:*

SIR—I have received your communication of September 29, 1909, transmitting a statement of facts prepared by the Topographical Bureau for an opinion as to whether there is sufficient evidence of dedication in Berriman street, between New Lots avenue and Sutter avenue to permit the granting of a franchise therein to the Nassau Electric Railroad Company without the necessity of condemnation proceedings.

Under date June 30, 1909, an opinion was delivered to you in the matter of Berriman street, between Pitkin and Sutter avenues, and in the matter of Sutter avenue between Milford street and Euclid avenue, advising you that these streets were dedicated and might be treated as public streets.

The condition of that portion of Berriman street now presented for consideration is practically the same as those thus passed upon. There are about sixty houses fronting on the street; the fences are on courtyard lines; there is a Belgian block pavement, cut stone curbs, cement, flag and earth sidewalks, and there are water, gas and sewer mains in the street.

Under these conditions I advise you that Berriman street between New Lots avenue and Sutter avenue has been legally dedicated and may be treated as a public street.

Respectfully yours,

G. L. STERLING, Acting Corporation Counsel.

LAW DEPARTMENT, OFFICE OF THE CORPORATION COUNSEL,
NEW YORK, October 31, 1908.

Hon. BIRD S. COLER, *President of the Borough of Brooklyn:*

SIR—I have received under date of September 19, 1908, a communication by the Borough Secretary transmitting a copy of a communication from Alexander S. Drescher, Secretary of the Brownsville Board of Trade, relating to the legal status of Alabama avenue, between Pitkin and Glenmore avenues, in the Borough of Brooklyn, and also a copy of a communication in answer thereto by the Chief Engineer of the Topographical Bureau, and I am requested to inform you whether Alabama avenue between the points named is sufficiently dedicated to public use to warrant further improvements by the City without the intervention of condemnation proceedings.

In answer thereto I would say that it appears by the records of the former Town of New Lots, within the territory of which the streets named were formerly located, that Alabama avenue, from the south side of Atlantic avenue to the north side of Broadway (now Pitkin avenue) was improved by the Commissioners of Improvements of the Town of New Lots under the authority of chapter 349 of the Laws of 1872, as amended by chapter 406 of the Laws of 1885, and that the assessment roll for such improvement was confirmed by the Supreme Court on April 24, 1886. I have also ascertained that the said avenue between the points named has been since that time in continuous public use.

Upon this state of facts I am of the opinion that Alabama avenue between the points named has been sufficiently dedicated to public use to authorize the further improvement of the same without the intervention of condemnation proceedings.

Respectfully,

G. L. STERLING, Acting Corporation Counsel.

Which was referred to the Chief Engineer.

United Dressed Beef Company.

The Secretary presented the following:

NEW YORK, N. Y., October 1, 1909.

To the Honorable the Board of Estimate and Apportionment of The City of New York:

GENTLEMEN—The United Dressed Beef Company, a corporation organized under the Laws of the State of New York, with its principal office at the southeast corner of First avenue and Forty-fourth street, the owner of certain land at the southeast corner of First avenue and Forty-fourth street, and of certain land on the south side of Forty-fourth street, commencing 100 feet west of the west building line of First avenue, and continuing west for 125 feet as shown on the accompanying plan, respectfully requests permission to construct a concrete conduit under Forty-fourth street, beginning at the east building line of First avenue, and running parallel to and 15 feet north of the south building line of Forty-fourth street to a point 100 feet west of the west building line of First avenue, as shown on accompanying plan. Conduit will follow grade of Forty-fourth street, and for the greater part of the length will be approximately 5 feet below the pavement.

The said conduit to be used by the United Dressed Beef Company for their exclusive use in carrying a steam pipe and electric conduits from their power house on the southeast corner of Forty-fourth street and First avenue to their new building on the south side of Forty-fourth street, 100 feet west of First avenue, which is used as a stable; conduit construction and arrangement of pipes therein to be as shown in accompanying plan.

Hoping that this petition will meet with your favorable consideration, we are,

Respectfully yours,

UNITED DRESSED BEEF COMPANY,
WALTER BLUMENTHAL, President.

REPORT No. F-185.

BOARD OF ESTIMATE AND APPORTIONMENT,
OFFICE OF THE CHIEF ENGINEER,
October 27, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, Chairman of the Board of Estimate and Apportionment:*

SIR—The United Dressed Beef Company has applied to the Board for permission to construct and use a concrete conduit under East Forty-fourth street, from its building on the southeasterly corner of Forty-fourth street and First avenue, under First avenue and East Forty-fourth street to its stable on the southerly side of Forty-fourth street, west of First avenue, in the Borough of Manhattan, the conduit to be used for the carrying of a steam pipe and electric conduits.

On November 3, 1905, the Board granted a similar application to this Company, which, upon request, was rescinded on March 30, 1906.

The President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity have been consulted relative to the advisability of granting the consent asked for, and they have replied stating that they could offer no objection to the approval of the application.

It is recommended that the consent be granted upon the terms outlined in the accompanying report of the Division of Franchises, the term of the privilege not to exceed ten years and to be revocable upon sixty days' notice in writing; that a security deposit of $1,000 be required to be deposited with the Comptroller, and that the annual charge for the maintenance of the conduit be fixed at $444.50 per annum. In addition, a fee of $25 should be charged to cover the cost of granting and rescinding the consent in 1906.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 207 BROADWAY,
October 26, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—The United Dressed Beef Company, a domestic corporation, has presented an application, dated October 1, 1909, to the Board of Estimate and Apportionment for permission to construct, maintain and use a concrete conduit under East Forty-fourth street, in the Borough of Manhattan, from its building on the southeasterly corner of Forty-fourth street and First avenue, across First avenue and along East Forty-fourth street to its stable building on the southerly side of said street, one hundred feet west of the westerly line of First avenue.

The petition recites that the said conduit is to be used by the United Dressed Beef Company exclusively for the purpose of carrying a steam pipe and electric conduits from the power house in the premises on the southeasterly corner of Forty-fourth street and First avenue to the stable building.

A precisely similar application was presented to the Board under date of November 3, 1905, and a resolution granting the requested permission was adopted on January 12, 1906, and approved by the Mayor January 17, 1906. Subsequently, the Company, in a communication dated March 10, 1906, requested that the resolution be rescinded, as the Company had decided not to construct the said conduit, and on March 30, 1906, a resolution was adopted by the Board of Estimate and Apportionment, which was approved by the Mayor April 5, 1906, rescinding the consent.

Copies of the present application and accompanying plan were forwarded to the President of the Borough of Manhattan and to the Commissioner of Water Supply, Gas and Electricity, with a request that an examination be made by the various Bureaus having jurisdiction with a view to ascertaining if there were any objections to the project or any special conditions which should be incorporated in the form of consent heretofore used by the Board for similar privileges. The attention of said officials was also called to the consent granted in 1906, as hereinabove mentioned.

Replies have been received from the said officials stating that there are no objections to the project and no special conditions in this case necessary to be inserted in the form of consent.

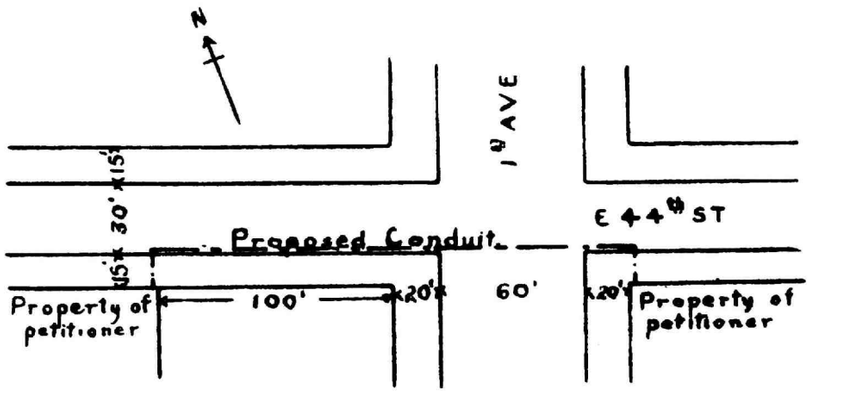
I can see no reason why the requested permission should not be granted and would recommend that the consent be given during the pleasure of the Board of Estimate and Apportionment, but in no case to extend beyond ten (10) years from the date of approval by the Mayor and revocable upon sixty (60) days' notice in writing, and that it be made a condition of the consent that a security deposit in the sum of one thousand dollars ($1,000) be required; said deposit to be in the form of either money or securities, to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

The length of proposed conduit within the lines of East Forty-fourth street is 235 feet. In accordance with the schedule adopted by the Board fixing the rate of charge for such privileges, the compensation should be $444.50 per annum. This compensation should commence on the date of the approval of the consent by the Mayor. In addition to this annual compensation, the petitioner should be required to pay a fee of twenty-five dollars ($25) to cover the extra cost of the granting and rescinding of the consent in 1906, covering this same privilege, in accordance with the past procedure of the Board. After consultation with the petitioner, it has been made a condition that the conduit shall be completely constructed within six (6) months from the date of the approval of the consent by the Mayor.

A resolution in accordance with these recommendations is herewith submitted.

Respectfully,

HARRY P. NICHOLS, Engineer in Charge.



Plan of Proposed Conduit for UNITED DRESSED BEEF CO

DIVISION OF FRANCHISES.

The applicant has signified its intention to accept the grant if passed by the Board.

The following was offered:

Whereas, The United Dressed Beef Company, a domestic corporation, has presented an application dated October 1, 1909, to the Board of Estimate and Apportionment of The City of New York for its consent to the construction, maintenance and use of a conduit 16 inches by 12½ inches, outside dimensions, from the building of the petitioner on the southeasterly corner of First avenue and Forty-fourth street, in the Borough of Manhattan, across First avenue and westerly along Forty-fourth street to the stable building of the petitioner 100 feet west of the westerly line of First avenue; the said conduit to be used exclusively by the United Dressed Beef Company for the purpose of providing a means for the transmission of steam and electrical current from the building on the southeasterly corner of First avenue and Forty-fourth street to the stable building, for heat, light and power purposes; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to the United Dressed Beef Company, the owner of the property on the southeasterly corner of First avenue and Forty-fourth street, and of the property on the southerly side of East Forty-fourth street 100 feet west of the westerly line of First avenue, in the Borough of Manhattan, City of New York, to construct, maintain and use a conduit 16 inches by 12½ inches, outside dimensions, from the building on the southeasterly corner of First avenue and Forty-fourth street, across First avenue and along Forty-fourth street to the company's stable building 100 feet west of the westerly line of First avenue; the said conduit to be used to contain a steam pipe and pipes for the transmission of electric current from the building on the southeasterly corner of First avenue and Forty-fourth street to the stable building, for heat, light and power purposes and for no other purposes, all as shown on the plan accompanying the application, entitled:

"Plan showing proposed concrete conduit in East Forty-fourth street (Borough of Manhattan) connecting the buildings of the United Dressed Beef Company, to accompany their application to the Board of Estimate and Apportionment, dated October 1, 1909;" and signed by P. R. Moses, Consulting Engineer; Walter Blumenthal, President,

—a copy of which is annexed hereto and made a part hereof, on the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, or its successors in authority, and shall be revocable upon sixty (60) days' notice in writing to the said grantee, its successors or assigns, but in no case shall it extend beyond a term of ten (10) years from the date of the approval of this consent by the Mayor, and thereupon all rights of the said United Dressed Beef Company in or under said East Forty-fourth street and First avenue by virtue of this consent shall cease and determine.

2. The said United Dressed Beef Company, its successors or assigns, shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, the annual sum of four hundred and forty-four dollars and fifty cents ($444.50). Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within thirty (30) days of the approval of this consent by the Mayor, and shall be only such proportion of four hundred and forty-four dollars and fifty cents ($444.50) as the time between the approval of this consent by the Mayor and November 1 following bears to the whole year. Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

In addition to the payments herein required as compensation for the privilege, the United Dressed Beef Company shall pay into the Treasury of The City of New York the sum of twenty-five dollars ($25) to cover the cost of reexamination, reprinting and republishing.

3. Upon the removal of the said grantee from either one or both of the buildings to be connected by the conduit or upon the revocation or termination by limitation of this consent, the said grantee, its successors or assigns, shall, at its own cost, cause the said conduit to be removed and all those portions of East Forty-fourth street and First avenue affected by this permission to be restored to their proper and original condition, if required so to do by The City of New York or its duly authorized representatives. If the conduit to be constructed by the said grantee under this consent shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. The consent hereby given is for the exclusive use of the grantee, and shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall title thereto or right, interest or property therein pass to or vest in any other person, firm or corporation, whatsoever, either by the acts of the said grantee, its successors or assigns, or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment or its successors in authority.

5. The said grantee shall pay the entire cost of:

(a) The construction and the maintenance of the conduit.

(b) The protection of all surface and subsurface structures which shall in any way be disturbed by the construction of the conduit.

(c) All changes in sewers or other subsurface structures made necessary by the construction of the conduit, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during the construction or removal of said conduit.

(e) Each and every item of the increased cost of any future substructure, caused by the presence of said conduit under this consent.

(f) The inspection of all work during the construction or removal of the conduit, as herein provided, which may be required by the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction shall be begun the grantee shall obtain permits to do the work from the President of the Borough of Manhattan and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed upon it by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of such conduit and the mode of protection or change in all subsurface structures required by the construction of the conduit.

7. The grantee, its successors or assigns, shall allow to The City of New York a right of way under or above any part of the conduit constructed under the consent hereby granted for any and all subsurface structures which are now or may be hereafter placed by The City of New York in those portions of East Forty-fourth street and First avenue occupied by said conduit.

8. The said conduit and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. The said conduit shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to East Forty-fourth street and First avenue.

10. Said grantee shall be liable for all damages to persons or property, including the streets and subsurface structures therein, by reason of the construction and operation or maintenance of said conduit and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of the consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. Said grantee, its successors or assigns, shall commence the construction of said conduit under this consent and complete the same within six months from the date of the approval of this consent by the Mayor, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment for a period not exceeding one month.

13. This consent is upon the express condition that the said grantee, within thirty days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of The City of New York the sum of one thousand dollars ($1,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the future removal of the conduit. In case of default in the performance by said grantee of any of such terms and conditions The City of New York shall have the right to cause the work to be done and materials to be furnished for making the necessary changes or repairs, after ten days' notice, and shall collect the reasonable costs thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charges, shall collect the same with interest from such fund, after ten days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of one thousand dollars ($1,000) and in default of the payment thereof the consent hereby given may be canceled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceedings or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

14. Said grantee shall give notice to the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, in writing, of its intention to begin construction of the work hereby authorized at least forty-eight hours before such construction commences. The grantee shall also give to the Board of Estimate and Apportionment notice in writing of the date on which the work is commenced, and also the date on which the same is completed, not later than ten (10) days after such dates.

15. This consent shall not become operative until said grantee shall duly execute an instrument in writing wherein said grantee shall promise, covenant and agree on its part to conform to, abide by and perform all the terms and conditions and requirements in this consent fixed and contained, and file the same with the Board of Estimate and Apportionment of The City of New York within thirty days after the approval of this consent by the Mayor.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless for all damages to persons or property which may result from the construction or operation of the conduit hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

United Electric Service Company.

In the matter of the franchise granted to the United Electric Service Company by resolution adopted by this Board June 11, 1909, approved by the Mayor June 16, 1909.

At the meeting of October 15, 1909, a communication was received from the Chief Engineer transmitting report from the Division of Franchises, stating the contract authorized by the aforesaid resolution had not been executed, and the Secretary of this Board was directed to communicate with the company, ascertain its intentions and request that it execute the contract and return the same on or before November 15, 1909.

The Secretary presented the following:

UNITED ELECTRIC SERVICE COMPANY,
EXECUTIVE OFFICE, No. 206 BROADWAY,
NEW YORK, October 25, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—I beg to acknowledge receipt of your communication, dated October 15, and in reply thereto will state that it is the intention of this company to have the contract executed on or before November 15, 1909.

Very respectfully,

M. W. RAYENS, President.

Which was ordered filed.

Richmond Light and Railroad Company.

In the matter of the petition of the Richmond Light and Railroad Company for a change in the line of its route in the vicinity of Fort Wadsworth, Borough of Richmond.

This petition was presented to this Board at the meeting of October 8, 1909, when, by resolution duly adopted, November 12, 1909, was fixed as the date for public hearing, and the matter was referred to the Chief Engineer.

The Secretary presented the following:

REPORT No. F-180.

BOARD OF ESTIMATE AND APPORTIONMENT,
DIVISION OF FRANCHISES, ROOM 801, No. 207 BROADWAY,
October 27, 1909.

Mr. NELSON P. LEWIS, *Chief Engineer:*

SIR—The petition of the Richmond Light and Railroad Company for a change of line in the vicinity of Fort Wadsworth, Borough of Richmond, which was presented to the Board under date of October 8, 1909, and referred to the Chief Engineer for investigation, has been under investigation, and I am just in receipt of a communication from the Commissioner of Public Works for the Borough of Richmond which informs me that a complication has arisen in regard to the proposed route, which in all probability will have to be changed. He has been in conference with a representative of the Company and they agree that a postponement of the hearing (which the Board set down for November 12) would be desirable, on account of the heavy cost of advertising, which might have to be done over again.

I would therefore recommend that the resolution adopted by the Board on October 8, 1909, fixing Friday, November 12, 1909, as the date for preliminary hearing and requesting that the Mayor designate two daily newspapers in which the petition and notice of such hearing shall be published, be rescinded.

Respectfully,
HARRY P. NICHOLS, Engineer in Charge

Approved:
NELSON P. LEWIS, Chief Engineer.

The following was offered:

Whereas, The Richmond Light and Railroad Company, in a petition dated October 1, 1909, presented to this Board October 8, 1909, has applied for a change in the line of its route in the vicinity of Fort Wadsworth, Borough of Richmond; and

Whereas, By resolution adopted by this Board October 8, 1909, the date for hearing on the aforesaid petition was fixed as November 12, 1909, and the petition was referred to the Chief Engineer; and

Whereas, This Board has this day received a report from the Engineer in charge of the Division of Franchises, approved by the Chief Engineer, stating a complication has arisen in regard to the proposed route, which will probably necessitate the changing of same, and it would be undesirable to cause the publication of the petition and notice of hearing, in consequence of the heavy cost of advertising should an amended route be substituted; now therefore be it

Resolved, That the resolution adopted by this Board October 8, 1909, fixing November 12, 1909, as the date for public hearing on the petition of the Richmond Light and Railroad Company, be and it is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

New York, Westchester and Boston Railway Company.

A petition was received from the New York, Westchester and Boston Railway Company for permission to consolidate the stock, properties and franchises of the New York, Westchester and Boston Railway Company and the New York and Port Chester Railroad Company and transfer same to the company to be formed by the consolidation of the aforementioned companies.

Which was referred to the Chief Engineer.

Manhattan and Queensboro Bridges.

The President of the Board of Aldermen moved that all communications relative to transportation facilities over the Manhattan and Queensboro Bridges be forwarded direct to the members of the Select Committee to which this matter was referred at the meeting of November 13, 1908.

Which motion was adopted.

FINANCIAL MATTERS.

The Chair announced a public hearing on the application of the Commissioner of Docks and Ferries for the institution of condemnation proceedings for the acquisition of property near the foot of Broadway, in the Borough of Brooklyn, for the uses and purposes of the Department of Docks and Ferries.

(On October 8, 1909, the Board adopted a resolution fixing October 29, 1909, as the date for a public hearing in this matter.)

The Secretary presented the following:

BOARD OF ESTIMATE AND APPORTIONMENT,
OFFICE OF THE SECRETARY, No. 277 BROADWAY,
October 28, 1909

To the Board of Estimate and Apportionment:

GENTLEMEN—I hereby certify that the following is a correct copy of notice of hearing published in the CITY RECORD on October 11, 13, 14, 15, 16, 18, 1909.

JOSEPH HAAG, Secretary, Board of Estimate and Apportionment.

Public notice is hereby given that the Board of Estimate and Apportionment, in accordance with the provisions of chapter 372 of the Laws of 1907, will hold a public hearing in room 16, City Hall, Borough of Manhattan, at 10.30 o'clock in the forenoon on Friday, October 29, 1909, relative to the request of the Commissioner of Docks of The City of New York, that the Board of Estimate and Apportionment authorize and assent to the institution of condemnation proceedings for the acquisition of all the uplands, filled in lands, lands and lands under water, wharf property, etc., near the foot of Broadway, Borough of Brooklyn, for the uses and purposes of the Department of Docks and Ferries, bounded and described as follows:

All the uplands, filled in lands, lands and lands under water, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands, filled in lands, lands and lands under water and wharf property situated near the foot of Broadway, in the Borough of Brooklyn, not now owned by The City of New York, bounded and described as follows:

Beginning at the intersection of the easterly prolongation of the southerly side of the crib pier between the northerly ferry slip to East Forty-second street and the southerly ferry slip to East Twenty-third street, Manhattan, with the southerly prolongation of the easterly side of the northerly ferry waiting room at the foot of Broadway:

Running thence westerly along the easterly prolongation of the southerly side and along the southerly side of said crib 370 feet, more or less, to the outshore end of said crib pier;

Running thence northerly along the outshore end of said crib pier 46 feet, more or less, to the northerly side of said crib pier;

Running thence easterly in a meandering line 254 feet, more or less, along the northerly side of said crib pier to the intersection of the northerly side of said crib pier with the northerly prolongation of the westerly side of said waiting room:

Running thence southerly along the northerly prolongation of the westerly side of the said waiting room 6 feet, more or less, to the northerly side of said waiting room;

Running thence easterly along the northerly side of said waiting room 118 feet, more or less, to the easterly side of said waiting room;

Running thence southerly along the easterly side of said waiting room and its southerly prolongation 36 feet, more or less, to the point or place of beginning.

GEORGE B. McCLELLAN,
Chairman, Board of Estimate and Apportionment

New York, October 11, 1909.

State of New York, City and County of New York, ss.:

Henry McMillen, being duly sworn, says that he is Deputy Supervisor of the City Record, the official journal of The City of New York; that the advertisement hereto annexed has been regularly published in the said CITY RECORD ten days consecutively, commencing on the 11th day of October, 1909.

HENRY McMILLEN.

Sworn to before me, this 22d day of October, 1909.
WASHINGTON H. HETTLER, Commissioner of Deeds, New York City.

Public notice is hereby given that the Board of Estimate and Apportionment, in accordance with the provisions of chapter 372 of the Laws of 1907, will hold a public hearing in room 16, City Hall, Borough of Manhattan, at 10.30 o'clock in the forenoon on Friday, October 29, 1909, relative to the request of the Commissioner of Docks of The City of New York, that the Board of Estimate and Apportionment authorize and assent to the institution of condemnation proceedings for the acquisition of a.l the uplands, filled in lands, lands and lands under water, wharf property, etc., near the foot of Broadway, Borough of Brooklyn, for the uses and purposes of the Department of Docks and Ferries, bounded and described as follows:

All the uplands, filled in lands, lands and lands under water, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands, filled in lands, lands and lands under water and wharf property situated near the foot of Broadway, Borough of Brooklyn, not now owned by The City of New York, bounded and described as follows:

Beginning at the intersection of the easterly prolongation of the southerly side of the crib pier between the northerly ferry slip to East Forty-second street and the southerly ferry slip to East Twenty-third street, Manhattan, with the southerly prolongation of the easterly side of the northerly ferry waiting room at the foot of Broadway;

Running thence westerly along the easterly prolongation of the southerly side and along the southerly side of said crib 370 feet, more or less, to the outshore end of said crib pier;

Running thence northerly along the outshore end of said crib pier 46 feet, more or less, to the northerly side of said crib pier;

Running thence easterly in a meandering line 254 feet, more or less, along the northerly side of said crib pier to the intersection of the northerly side of said crib pier with the northerly prolongation of the westerly side of said waiting room;

Running thence southerly along the northerly prolongation of the westerly side of the said waiting room 6 feet, more or less, to the northerly side of said waiting room;

Running thence easterly along the northerly side of said waiting room 118 feet, more or less, to the easterly side of said waiting room;

Running thence southerly along the easterly side of said waiting room and its southerly prolongation 36 feet, more or less, to the point or place of beginning.

GEORGE B. McCLELLAN,
Chairman, Board of Estimate and Apportionment.

DEPARTMENT OF DOCKS AND FERRIES,
PIER "A," NORTH RIVER,
NEW YORK, August 3, 1909.

Hon. GEORGE B. McCLELLAN, *Mayor, and Chairman of the Board of Estimate and Apportionment:*

SIR—I would respectfully request that the Board of Estimate and Apportionment authorize and assent to the institution of condemnation proceedings for the following described property:

All the uplands, filled in lands, lands and lands under water, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands, filled in lands, lands and lands under water and wharf property situated near the foot of Broadway, in the Borough of Brooklyn, not now owned by The City of New York, bounded and described as follows:

Beginning at the intersection of the easterly prolongation of the southerly side of the crib pier between the northerly ferry slip to East Forty-second street and the southerly ferry slip to East Twenty-third street, Manhattan, with the southerly prolongation of the easterly side of the northerly ferry waiting room at the foot of Broadway;

Running thence westerly along the easterly prolongation of the southerly side and along the southerly side of said crib pier 370 feet, more or less, to the outshore end of said crib pier;

Running thence northerly along the outshore end of said crib pier 46 feet, more or less, to the northerly side of said crib pier;

Running thence easterly in a meandering line 254 feet, more or less, along the northerly side of said crib pier to the intersection of the northerly side of said crib pier with the northerly prolongation of the westerly side of said waiting room;

Running thence southerly along the northerly prolongation of the westerly side of the said waiting room 6 feet, more or less, to the northerly side of said waiting room;

Running thence easterly along the northerly side of said waiting room 118 feet, more or less, to the easterly side of said waiting room;

Running thence southerly along the easterly side of said waiting room and its southerly prolongation 36 feet, more or less, to the point or place of beginning.

Under date of August 3, 1909, the Department of Taxes and Assessments advised that the property marked "B" on the diagram is known on the books of that Department as part of Lot 3 of Block 2467, and is valued at, land, $30,000; improvements, $3,500; making a total of $33,500.

Yours respectfully,
ALLEN N. SPOONER, Commissioner of Docks.

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
September 29, 1909.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment:*

DEAR SIR—I transmit herewith a certified copy of resolution adopted by the Commissioners of the Sinking Fund, at meeting held September 22, 1909, approving of and consenting to the institution of condemnation proceedings for the acquisition of property near the foot of Broadway, in the Borough of Brooklyn.

Very truly yours,
N. TAYLOR PHILLIPS, Secretary, Commissioners of the Sinking Fund.

Resolved, That the Commissioners of the Sinking Fund hereby approve of and consent to the institution of condemnation proceedings for the acquisition of the following described property:

All the uplands, filled in lands, lands and lands under water, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands, filled in lands, lands and lands under water and wharf property situated near the foot of Broadway, in the Borough of Brooklyn, not now owned by The City of New York, bounded and described as follows:

Beginning at the intersection of the easterly prolongation of the southerly side of the crib pier, between the northerly ferry slip to East Forty-second street and the southerly ferry slip to East Twenty-third street, Manhattan, with the southerly pro-

longation of the easterly side of the northerly ferry waiting room at the foot of Broadway;

Running thence westerly along the easterly prolongation of the southerly side and along the southerly side of said crib 370 feet, more or less, to the outshore end of said crib pier;

Running thence northerly along the outshore end of said crib pier 46 feet, more or less, to the northerly side of said crib pier;

Running thence easterly in a meandering line 254 feet, more or less, along the northerly side of said crib pier to the intersection of the northerly side of said crib pier with the northerly prolongation of the westerly side of said waiting room;

Running thence southerly along the northerly prolongation of the westerly side of the said waiting room 6 feet, more or less, to the northerly side of said waiting room;

Running thence easterly along the northerly side of said waiting room 118 feet, more or less, to the easterly side of said waiting room;

Running thence southerly along the easterly side of said waiting room and its southerly prolongation 36 feet, more or less, to the point or place of beginning.

A true copy of resolution adopted by the Commissioners of the Sinking Fund, September 22, 1909.

N. TAYLOR PHILLIPS, Secretary.

No one appearing in favor or in opposition the Chair declared the hearing closed.

The following resolution was offered:

Resolved, That the Corporation Counsel be and is hereby authorized to institute condemnation proceedings for the acquisition of the following described property situated near the foot of Broadway, in the Borough of Brooklyn, for the uses and purposes of the Department of Docks and Ferries, viz.:

All the uplands, filled in lands, lands and lands under water, wharf property, wharfage rights, terms, easements, emoluments and privileges of and to the uplands, filled in lands, lands and lands under water and wharf property situated near the foot of Broadway, in the Borough of Brooklyn, not now owned by The City of New York, bounded and described as follows:

Beginning at the intersection of the easterly prolongation of the southerly side of the crib pier between the northerly ferry slip to East Forty-second street and the southerly ferry slip to East Twenty-third street, Manhattan, with the southerly prolongation of the easterly side of the northerly ferry waiting room at the foot of Broadway;

Running thence westerly along the easterly prolongation of the southerly side and along the southerly side of said crib 370 feet, more or less, to the outshore end of said crib pier;

Running thence northerly along the outshore end of said crib pier 46 feet, more or less, to the northerly side of said crib pier;

Running thence easterly in a meandering line 254 feet, more or less, along the northerly side of said crib pier to the intersection of the northerly side of said crib pier with the northerly prolongation of the westerly side of said waiting room;

Running thence southerly along the northerly prolongation of the westerly side of the said waiting room 6 feet, more or less, to the northerly side of said waiting room;

Running thence easterly along the northerly side of said waiting room 118 feet, more or less, to the easterly side of said waiting room;

Running thence southerly along the easterly side of said waiting room and its southerly prolongation 36 feet, more or less, to the point or place of beginning.

—which property is assessed for the year 1909 at $33,500, as shown by the books of record on file in the office of the Department of Taxes and Assessments.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The following transfers of appropriations were made upon the recommendation of the Comptroller:

A—$307.04, as requested by the President of the Borough of Queens within the appropriation made to said office for the year 1908.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF QUEENS,
LONG ISLAND CITY, October 15, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, and Chairman, Board of Estimate and Apportionment:*

DEAR SIR—I beg to inclose herewith resolution for adoption by your Honorable Board authorizing the transfer of three hundred and seven dollars and four cents ($307.04) from the appropriation made to the President of the Borough of Queens, Bureau of Highways, No. 152, Labor, Maintenance and Supplies, Equipment, Repairs, Renewals and Supplies, 1908, the same being in excess of the amount required for the purposes thereof, to the appropriation made to this office for the year 1908, entitled as follows:

Bureau of Sewers—

165. Far Rockaway Disposal Works, Equipment, Repairs, Renewals and Supplies, 1908	$259 68
169. Newtown Disposal Works, Equipment, Repairs, Renewals and Supplies, 1908	47 36
	$307 04

—the amount of said appropriations being insufficient.

Yours respectfully,

LAWRENCE GRESSER, President of the Borough of Queens.

The following resolution was offered:

Resolved, That the sum of three hundred and seven dollars and four cents ($307.04) be and the same is hereby transferred from the appropriation made to the office of the President, Borough of Queens, for the year 1908, entitled "Bureau of Highways, No. 152, Labor, Maintenance and Supplies, Equipment, Repairs, Renewals and Supplies," the same being in excess of the amount required for the purposes thereof, to the appropriation made to said office for the year 1908, entitled and as follows:

Bureau of Sewers—

165. Far Rockaway Disposal Works, Equipment, Repairs, Renewals and Supplies	$259 68
169. Newtown Disposal Works, Equipment, Repairs, Renewals and Supplies	47 36
	$307 04

—the amounts of said appropriations being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

B—$80.05, from the appropriation made for the year 1907, entitled "Interest on the City Debt," to the appropriations made to the President of the Borough of Queens for the same year, entitled:

Bureau of Sewers (No. 91), Jamaica Disposal Works	$42 55
Bureau of Highways (No. 85), Labor, Maintenance and Supplies	37 50
	$80 05

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF QUEENS,
LONG ISLAND CITY, October 16, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, and Chairman, Board of Estimate and Apportionment:*

DEAR SIR—I beg to inclose herewith resolutions for adoption by your Honorable Board authorizing the transfer of eighty dollars and five cents ($80.05) from some unexpended balance for the year 1907 to the following funds:

President of the Borough of Queens—

No. 91. Bureau of Sewers, Jamaica Disposal Works, 1907	$42 55
No. 85. Bureau of Highways, Labor, Maintenance and Supplies, 1907	37 50
	$80 05

All of the unexpended balances for the year 1907 for this office have been transferred to the general fund for the reduction of taxation.

Very truly yours,

LAWRENCE GRESSER, President of the Borough of Queens.

The following resolution was offered:

Resolved, That the sum of eighty dollars and five cents ($80.05) be and the same is hereby transferred from the appropriation made for the year 1907 for the account entitled "Interest on the City Debt," the same being in excess of the amount required for the purposes thereof, to the appropriation made to the office of the President, Borough of Queens, for the year 1907, entitled and as follows:

Bureau of Sewers (No. 91), Jamaica Disposal Works	$42 55
Bureau of Highways (No. 85), Labor, Maintenance and Supplies	37 50
	$80 05

—the amounts of said appropriations being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

C—$1,500, as requested by the Commissioner of Bridges, from the account Bridges in the Borough of The Bronx (104), Material for Repairs and Replacements by Departmental Labor, to the account Bridges in the Borough of The Bronx (105), Repairs and Replacements by Contracts or Open Orders within the appropriation for the year 1909.

DEPARTMENT OF BRIDGES—CITY OF NEW YORK,
Nos. 13 TO 21 PARK ROW,
NEW YORK, October 15, 1909.

To the Honorable the Board of Estimate and Apportionment of The City of New York:

GENTLEMEN—I have to request the following transfers within the appropriations supporting the Budget appropriation for this Department for the year 1909, as follows:

Bridges in the Borough of The Bronx (No. 104)—Subdivision, Material for Repairs and Replacements by Departmental Labor, $1,500; to No. 105—Subdivision, Repairs and Replacements by Contracts and Open Orders, $1,500.

This transfer is necessary on account of the changes in the method of making repairs in the Borough of The Bronx since the Budget for 1909 became available.

This does not increase the Budget appropriation for this Department for the year 1909.

Respectfully,

JOHN H. LITTLE, Deputy and Acting Commissioner.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 18, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication under date of October 15, 1909, from the Commissioner of the Department of Bridges, requesting a transfer of the sum of $1,500 within the appropriation made to said Department for the year 1909. I report as follows:

The requested transfer is from Bridges in the Borough of The Bronx (104), Materials for Repairs and Replacements by Departmental Labor, $1,500, to (No. 105) Repairs and Replacements by Contracts or Open Orders, $1,500.

The Commissioner states that the requested transfer is necessitated "on account of changes in the method of making repairs in the Borough of The Bronx since the Budget for 1909 became available."

In view of the preceding statement, I recommend the adoption of the resolution hereunto attached.

Respectfully yours,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the sum of fifteen hundred dollars ($1,500) be and the same is hereby transferred from the appropriation made to the Department of Bridges for the year 1909, entitled Bridges in the Borough of The Bronx (No. 104), Materials for Repairs and Replacements by Departmental Labor, the same being in excess of the amount required therefor, to the appropriation made to said Department for the year 1909, entitled Bridges in the Borough of The Bronx (No. 105), Repairs and

Replacements by Contracts or Open Orders, the amount of said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

D—$900, as requested by the Commissioner of Bridges, within the appropriation made to said Department for the year 1909.

DEPARTMENT OF BRIDGES—CITY OF NEW YORK,
Nos. 13 TO 21 PARK ROW,
NEW YORK, October 18, 1909.

To the Honorable Board of Estimate and Apportionment of The City of New York:

GENTLEMEN—I have to request the following transfers within the appropriations supporting the Budget appropriation for this Department for the year 1909, to meet the necessary expenses, as follows:

From Bridges over Newtown Creek—Subdivision No. 91, Repairs and Replacements by Contracts or Open Orders	$100 00
Subdivision No. 92—Apparatus, Machinery, Vehicles, Horses, Equipment, Care and Storage of same	200 00
Subdivision No. 93—Hired Teams, Horses and Carts	50 00
	$350 00

—the same being in excess of the amount required for the purposes thereof, to:

Bridges over Newtown Creek—Subdivision No. 90, Materials for Repairs and Replacements by Departmental Labor, $350.

—the amount of said appropriation being insufficient.

From Bridges in the Borough of Queens, Subdivision No. 112, Apparatus, Machinery, Vehicles, Horses, Equipment, Care and Storage of Same, $550.

—the same being in excess of the amount required for the purposes thereof.

To bridges in the Borough of Queens, Subdivision No. 110, Materials for Repairs and Replacements by Departmental Labor, $550.

—the amount of said appropriation being insufficient.

This does not increase the Budget appropriation for this Department for the year 1909.

Respectfully,
JOHN H. LITTLE, Deputy and Acting Commissioner.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 25, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a request, under date of October 18, 1909, from the Commissioner of the Department of Bridges, for certain transfers within the appropriations made for said Department for the year 1909, I present the following report:

The several accounts affected and the present status of such accounts, as shown by memoranda submitted by the Commissioner's representative, are as follows:

	Allowances for 1909.	Disbursements and Outstanding Liabilities as of October 19, 1909.	Unencumbered Balance.	Requested Transfers.
From Bridges Over Newtown Creek.				
No. 91—Repairs and Replacements by Contracts or Open Orders	$4,500 00	$3,245 18	$1,254 82	$100 00
No. 92—Apparatus, Machinery, Vehicles, Horses; Equipment, Care and Storage of Same	200 00	.....	200 00	200 00
No. 93—Hired Teams, Horses and Carts.	875 00	645 50	229 50	50 00
Bridges in the Borough of Queens.				
No. 112—Apparatus, Machinery, Vehicles, Horses; Equipment, Care and Storage of Same	1,600 00	897 90	702 10	550 00
Total	$7,175 00	$4,788 58	$2,386 42	$900 00
To Bridges Over Newtown Creek.				
No. 90—Materials for Repairs and Replacements by Departmental Labor	$3,325 00	$3,178 32	$146 68	$350 00
Bridges in the Borough of Queens.				
No. 110—Materials for Repairs and Replacements by Departmental Labor	1,525 00	1,396 49	128 51	550 00
Total	$4,850 00	$4,574 81	$275 19	$900 00

In view of the preceding statement, I recommend the adoption of the resolution hereunto attached.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the sum of nine hundred dollars ($900) be and the same is hereby transferred from the appropriation made to the Department of Bridges for the year 1909, entitled and as follows:

Bridges over Newtown Creek—		
91. Repairs and Replacements by Contracts or Open Orders	$100 00	
92. Apparatus, Machinery, Vehicles, Horses; Equipment, Care and Storage of Same	200 00	
93. Hired Teams, Horses and Carts	50 00	
Bridges in the Borough of Queens—		
112. Apparatus, Machinery, Vehicles, Horses; Equipment, Care and Storage of Same	550 00	
		$900 00

—the same being in excess of the amounts required for the purposes thereof, to the appropriation made to said Department for the year 1909, entitled and as follows:

Bridges over Newtown Creek—		
90. Materials for Repairs and Replacements by Departmental Labor	$350 00	
Bridges in the Borough of Queens—		
110. Materials for Repairs and Replacements by Departmental Labor	550 00	
		$900 00

—the amounts of said appropriations being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens, and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented a communication from the Fire Commissioner requesting the establishment of the grade of position of Clerk, with salary at the rate of $2,100 per annum, for one incumbent.

Which was referred to the Select Committee consisting of the Comptroller and the President, Board of Aldermen.

The Secretary presented the following communication from the Comptroller transmitting reports of the Bureau of Law and Adjustment, Department of Finance, and opinion of the Corporation Counsel, relative to the claims of Michael J. Flaherty, former Sheriff of Kings County, for $651 and $3,911.27, respectively, alleged to be due for professional services in proceeding with and completing the execution of mandates, etc., after the expiration of his term of office:

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 13, 1909.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment:*

SIR—I transmit herewith Claims Nos. 57447 and 57448 of Michael J. Flaherty, together with reports thereon of the Bureau of Law and Adjustment of this Department, dated May 21, 1909, and September 13, 1909, and opinion of William P. Burr, Acting Corporation Counsel, dated July 1, 1909, and other papers in said matter. Said case is transmitted to you for such action thereon as the Board of Estimate and Apportionment may deem advisable, pursuant to the recommendation contained in report of September 13, 1909.

Yours truly,
H. A. METZ, Comptroller.

In the matter of Claims Nos. 57447 and 57448 of Michael J. Flaherty, former Sheriff of Kings County, for $651 and $3,911.27, respectively, alleged to be due for professional services in proceeding with and completing the execution of mandates, and for prosecuting and defending actions and proceedings for alleged acts of omission or misconduct in his official capacity, after the termination of his office as such Sheriff.

Hon. HERMAN A. METZ, *Comptroller:*

SIR—Michael J. Flaherty, former Sheriff of Kings County, has presented two claims alleged to be due for professional services after the termination of his office as such Sheriff.

Claim No. 57447 for $651.

In Claim No. 57447 it was alleged that the sum of $651 was due "for services rendered by Henry E. Cochrane, attorney and counsellor at law, who was duly appointed by me, among other things, for the purpose of proceeding with and completing the execution of mandates which were given before the expiration of my term of office as Sheriff of Kings County, and the execution of which by law I was required to complete."

Attached to the notification of such claim was an affidavit by Henry F. Cochrane to the effect that, on or about December 31, 1907, he was appointed by Michael J. Flaherty, Sheriff of the County of Kings, pursuant to chapter 705 of the Laws of 1901, and chapter 464 of the Laws of 1907, "for the purpose of proceeding with and completing the execution of mandates which the said Sheriff of Kings County began to execute prior to the expiration of his term of office and the execution of which he is required by law to complete;" that a detailed statement annexed thereto contained the title of each action or proceeding in which services were rendered together with the number of such proceeding in the Sheriff's office and each item or charge so set forth specifically to show the service rendered in each particular case; that in so far as practicable, a uniform charge had been made for each service and this rule had been adhered to in each case; and that all the services set forth in the said statement were actually rendered and were necessary and proper to be rendered.

Michael J. Flaherty was examined under oath and testified in substance as follows: He entered upon the duties of his office as Sheriff on the 1st of January, 1906. His term expired December 31, 1907, or January 1, 1908. He designated in writing H. F. Cochrane to perform the said services, and Cochrane had performed such services very attentively. He had not paid the sum of $651, which was the amount of the bill, but considered he was obliged to do so. The services were all rendered within the calendar year 1908, but there were still some cases in court. This testimony is transmitted herewith.

Henry F. Cochrane was examined under oath, and testified in substance as follows: He was a practicing attorney and counsellor at law, and was designated, in writing, by former Sheriff Flaherty to perform the above mentioned services. He charged $651 for the same. The statements attached to the notification of claim were correct. As regards foreclosures of mortgages, he charged in relation to the various items, not simply in the aggregate, the amount allowed to the Sheriff by law. In each case the amount collected on each official case was turned over to the City. These charges aggregated $176. There were 395 executions which were charged for at the rate of $1 each, making $395. There were three proceedings to redeem real property in which the redemption took place after the expiration of the Sheriff's term of office. In one of these cases he charged $30, and in each of the other two he charged $25, a total of $80. In these three cases he based his charge upon the fair and reasonable value of the services performed. The remaining charges were statutory. This testimony is transmitted herewith.

In a report by John P. Kenny, an Examiner employed in the Bureau of Law and Adjustment of this Department, transmitted herewith, it is stated that he found in only three instances the statement was defective. These affected the returns upon executions filed upon which there should be a deduction of $3, reducing the aggregate of the claim to $648, instead of $651.

Herewith transmitted is a certificate, dated December 31, 1907, signed by Michael J. Flaherty, as Sheriff of the County off Kings, to the effect that pursuant to the power and authority conferred by chapter 705 of the Laws off 1901, he appointed and designated, as his attorney and counsel for the years 1908 and 1909, Henry F. Cochrane, attorney and counsellor at law, of No. 44 Court street, Brooklyn, New York.

Claim No. 57448 for $3,911.27.

In Claim No. 57448 payment is requested of a bill for $3,911.27, "for services rendered by Henry F. Cochrane, attorney and counsellor at law, who was duly appointed by me, among other things, for the purpose of prosecuting and defending actions and proceedings by me or against me as Sheriff of Kings County for alleged acts of omission or misconduct in my official capacity, and actions brought by me relative to and appertaining to my office as Sheriff of Kings County." It is stated that the services were necessary and proper in closing the business of the office, and the fees were incurred for the purpose of closing such business, and the respective charges were considered by claimant to be reasonable.

Attached to the said notification of claim is an affidavit, made by Henry F. Cochrane, to the effect that he was an attorney and counsellor at law; that on or about December 31, 1907, he was appointed counsel by Michael J. Flaherty, Sheriff of the County of Kings, pursuant to chapter 705 of the Laws of 1901, and chapter 464 of the Laws of 1903, for the purposes above mentioned; that the charges covered the period from January 1, 1908, to December 31, 1908, and that the detailed statements annexed thereto contained the title of each action or proceeding in which services were rendered or are to be rendered, and gave also the general nature of the action or proceeding, and showed the services rendered or necessary in each case.

Michael J. Flaherty was examined under oath, and testified in substance as follows: He designated, in writing, Henry F. Cochrane to perform the services in question. Cochrane performed such services, and the charge of $3,911.27 made for such services between January 1, 1908, and January 1, 1909, to the best of his knowledge and belief was reasonable. This testimony is transmitted herewith.

Henry F. Cochrane was examined under oath, and testified in substance as follows: He was designated by Michael J. Flaherty, Sheriff of Kings County, to prosecute and defend actions in proceedings brought by or against him as such Sheriff for alleged acts of omission or misconduct in his official capacity. He charged

$3,911.27 for such services, which were all performed within the calendar year 1908, and none of which was performed during the Sheriff's term of office. One case was begun during the Sheriff's term of office, being the claim of the said Sheriff against Charles J. Milliken, John E. Kraft and Roscoe C. E. Brown, composing the Civil Service Commission of the State of New York. The action was begun in the month of November, 1907, and was not decided until the expiration of the Sheriff's term. Subsequently an appeal was taken to the Appellate Division of the Third Term and subsequently an appeal to the Court of Appeals, which reversed both of the lower courts and sustained Mr. Flaherty's contention. That was practically the most difficult litigation and it resulted in the removal of the appointees of the Sheriff. The litigation had been originally started in the year 1901. Both of the predecessors of Sheriff Flaherty undertook to have the status of the employees of the Sheriff's office established, and were defeated. Upon Sheriff Flaherty's assumption of office he found a stipulation in force by which the employees of his predecessor had been paid pending the determination. In February, 1906, the Civil Service Commission refused to continue the stipulation, and demanded that the Sheriff appoint from a Civil Service list. Various negotiations were carried on for the purpose of having the Sheriff allowed the same latitude that his predecessors had for a period of five years. This was declined. The situation was that in the latter part of 1907, or in January, 1908, the Civil Service Commission established a list of those eligible for appointment, and refused to sign the payrolls thereafter, whereupon the employees continued to work and the Sheriff continued to be liable for their pay up to about $12,000. In the latter part of 1907, the witness applied to Mr. Justice Fitts, in a Special Term of the Supreme Court, for a peremptory writ of mandamus. The application was opposed by Attorney-General Jackson and by Mr. Dillon. Justice Fitts held it under advisement until after the expiration of the Sheriff's term, when he denied the application, by which action the Sheriff was made responsible for the said amount of money. It was then that the work began for which the claimant made a charge of $3,216.27. An appeal was taken to the Appellate Division of the Third Department, in January, 1908, when the Court, by a divided vote of three to two, affirmed Judge Fitts' order denying the application. There was another appeal on the part of the Sheriff to the Court of Appeals, which was argued November 15, 1908, and within a month thereafter the Court of Appeals unanimously reversed the Appellate Division and Judge Fitts, and granted a peremptory writ of mandamus directing the Civil Service Commission to change the classification of all employees of the Sheriff's office, and authorizing Flaherty to certify all payrolls presented by him, thus vindicating the Sheriff's position from the very beginning. The charge made included disbursements. Ten trips in all were made to Albany, and the Civil Service people insisted that he should go to Rochester to meet them, and he was obliged to wait there two days before he could be heard in the matter. The actual expenses amounted to $216.27. The witness had been engaged in extensive lines of litigation. He was counsel for the American Sugar Refining Company, for the North Side Bank of Brooklyn, for the German-American Improvement Company of Brooklyn and for other private corporations and clients. He considered that he was practically at work for almost six months, without interruption, in that matter. He examined the Civil Service authorities of the United States since the enactment of the Pendleton Law, and the agitation that led up to the Pendleton Law. He had to contend against the adverse decision of the courts in the case of the People ex rel. Schar, upon which Justice Fitts rendered his decision against the Sheriff. The decision of the Court of Appeals was regarded as the most far reaching and most effective interpretation of the Civil Service law that was had. As regards the remaining services which he rendered, he charged for the different cases, respectively, $100, $150, $50, $60, $100, $25, $50, $100, $25, $20 and $15. All of these services were rendered in the calendar year 1908. Some of these cases at the time of such examination were still unfinished.

Upon such examination the witness testified in detail respecting the services which had been rendered. This testimony is transmitted herewith.

Examiner John P. Kenny reported upon this claim as follows: As regards the charge for disbursements, amounting to $216.27, made in connection with the matter of the application of Sheriff Flaherty for a writ of mandamus against the State Civil Service Commission, the Examiner saw vouchers on file in Mr. Cochrane's office. The Examiner submitted the question of the reasonableness of the charge of $3,000 for Cochrane's services to two reputable lawyers of Brooklyn, who were more or less familiar with the mandamus proocedings. These were William C. DeWitt, former Corporation Counsel, and Bruce R. Duncan. As regards the remaining charges, they were at the rate ordinarily charged for similar services. The Examiner recommended that the claim be adjusted in the sum of $3,911.27.

Attached to the said report was a communication addressed to the Comptroller by William C. DeWitt, dated May 10, 1909, in which it was stated: "In respect to the bill of Henry F. Cochrane, Esq., counsellor at law, for services rendered under the direction of Michael J. Flaherty, Sheriff of Kings County, in the litigation against the Civil Service Commission of the State of New York, submitted by you to me, concerning the appointment and salaries of various deputies and other subordinates of the Sheriff, conducted through the Supreme Court, and successfully concluded by him in the Court of Appeals, I am of the opinion that such services were meritorious and the amount charged therefor reasonable and just."

Also attached to the said report was a communication dated the 10th of May, 1909, addressed to the Comptroller by Bruce R. Duncan, in which it was stated: "I have given careful consideration to the services rendered by Mr. Henry F. Cochrane, attorney at law, under the direction of Michael J. Flaherty, former Sheriff of Kings County, in the mandamus proceedings against the Civil Service Commission of The City of New York, concerning the appointment and salaries of various Deputies and other subordinates of the Sheriff, which proceedings were conducted through the Special Term and the Appellate Division of the Supreme Court and in the Court of Appeals, where he was finally successful, and I am of the opinion that his bill for such services submitted by you to me is fair and reasonable, and that the matter was ably conducted by him."

Section 2 of Chapter 705 of the Laws of 1901, as amended by chapter 464 of the Laws of 1903, provides as follows: "After the expiration of the term of office of each sheriff of the County of Kings, the board of estimate and apportionment of the city of New York is hereby authorized to audit and allow as charges against said city the reasonable costs and counsel fees paid or incurred by said sheriff after the expiration of his term of office in prosecuting or defending any actions or proceedings brought by or against him for any alleged act or omission or misconduct in his official capacity, by virtue or color of his office, and in proceeding with and completing the execution of each mandate he began to execute before the expiration of his said term of office, and the execution of which he is required by law to complete, but said sum so audited and allowed shall not exceed five thousand dollars for any one year. Nor of the said five thousand dollars shall the amount so audited and allowed for reasonable costs and counsel fees for proceeding with and completing the execution of such mandates exceed one thousand dollars in any one year, or be audited and allowed for a longer period than two years after the expiration of his term of office."

It is respectfully recommended that this report be transmitted to the Corporation Counsel with a request for his advice as to whether or not the services in connection with the said mandamus proceedings for which the sum of $3,216,27 was charged are properly included in the said enactment.

Respectfully,

JOSEPH L. HANCE, Auditor of Accounts.

Approved:

J. T. MAHONEY, Chief of the Bureau of Law and Adjustment.

LAW DEPARTMENT,
OFFICE OF THE CORPORATION COUNSEL,
NEW YORK, July 1, 1909.

Hon. HERMAN A. METZ, *Comptroller:*

SIR—I have received under date of May 25, 1909, a communication signed N. Taylor Phillips, Deputy Comptroller, transmitting the report of Joseph L. Hance, Auditor of Accounts, Division of Law and Adjustment of the Finance Department, in the matter of claims Nos. 57447 and 57448, filed in said Department by Michael J. Flaherty, former Sheriff of Kings County, for the sums of $651 and $3,911.27, respectively, alleged to be due for professional services under provisions of chapter 705 of the Laws of 1901, as amended by chapter 464 of the Laws of 1903. This report, with the accompanying papers was transmitted to me for appropriate action in the premises in accordance with the recommendations thereof. The recommendation contained in said report is that the same be transmitted to the Corporation Counsel with a request for his advice as to whether or not the services in connection with the mandamus proceedings for which the sum of $3,216.27 was charged, are properly authorized by the statute above cited.

Section 2 of this statute provides as follows:

"After the expiration of the term of office of each sheriff of the county of Kings, the board of estimate and apportionment of the city of New York is hereby authorized to audit and allow as charges against said city the reasonable costs and counsel fees paid or incurred by said sheriff after the expiration of his term of office in prosecuting or defending any action or proceedings brought by or against him for any alleged act or omission or misconduct in his official capacity, by virtue or color of his office, and in proceeding with and completing the execution of each mandate he began to execute before the expiration of his said term of office, and the execution of which he is required by law to complete, but said sum so audited and allowed shall not exceed five thousand dollars for any one year. Nor of the said five thousand dollars shall the amount so audited and allowed for reasonable costs and counsel fees for proceeding with and completing the execution of such mandates exceed one thousand dollars in any one year or be audited and allowed for a longer period than two years after the expiration of his term of office."

It appears by the report and by the other papers submitted to me that in the month of November, 1907, Mr. Flaherty, who was then Sheriff of Kings County, applied through his counsel Henry F. Cochrane to Mr. Justice Fitts, holding a Special Term of the Supreme Court in the Third Judicial District for a writ of mandamus compelling the Board of the State Civil Service Commissioners to certify the payrolls of the Sheriff's office. This Board had refused to so certify the payrolls for the reason that, as it claimed, the employees of the Sheriff's office should have been appointed from lists prepared by it, whereas they were appointed by the Sheriff, without regard to competitive examinations. The Court at Special Term rendered its decision, denying said application, in January, 1908, after the term of office of Mr. Flaherty as Sheriff had expired. An appeal was taken to the Appellate Division of the Supreme Court in the Third Judicial Department, where the decision of the Special Term was affirmed. A further appeal was taken to the Court of Appeals, and the decision of the Appellate Division was reversed, and a mandamus was directed to issue in accordance with the application of the Sheriff.

The only question which arises under your request is whether this proceeding comes within the terms of the statute cited so as to render the expense of its prosecution after the expiration of the term of office of the Sheriff a charge against the City.

I am of opinion that this question must be answered in the affirmative, in view of the fact that the right of the Sheriff to bring and to continue this proceeding was necessarily involved in the determination thereof, and must have been considered by the Court of Appeals in arriving at its decision.

The amount allowed, however, must be confined to the expense of the proceeding, whether for counsel fee or otherwise, to acts performed after the expiration of the term of office of the Sheriff, namely, December 31, 1907. This would necessarily exclude any compensation for the preparation of the case and for the argument at the Special Term in November, 1907, and any expense which might have been incurred before January 1, 1908.

I am not asked to pass upon the proper amount to be allowed, as that is a matter peculiarly within the discretion of the Board of Estimate and Apportionment.

Respectfully yours,

WILLIAM P. BURR, Acting Corporation Counsel.

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
September 13, 1909.

In the matter of Claims Nos. 57447 and 57448 of Michael J. Flaherty, former Sheriff of Kings County, for $651 and $3,911.27, respectively, alleged to be due for professional services in proceeding with and completing the execution of mandates, and for prosecuting and defending actions and proceedings for alleged acts of omission or misconduct in his official capacity, after the termination of his office as such Sheriff.

Hon. HERMAN A. METZ, *Comptroller:*

SIR—Under date of May 21, 1909, a report was made upon these claims by the Bureau of Law and Adjustment of this Department reciting the facts relating thereto and referring particularly to a charge of $3,216.27 for counsel fees and disbursements in certain proceedings in the Supreme Court, in the Third Judicial District, to compel the Board of State Civil Service Commissioners to certify the payrolls of the Sheriff's office. In the said report it was recommended that the advice of the Corporation Counsel be obtained as to whether or not the services in connection with the said mandamus proceedings were properly included in the charges authorized to be paid by the City under section 2 of chapter 705 of the Laws of 1901, as amended by chapter 464 of the Laws of 1909.

In reply to a request for such advice a communication, transmitted herewith, dated July 1, 1909, has been received from Acting Corporation Counsel William P. Burr, in which it is stated: "The only question which arises under your request is whether this proceeding comes within the terms of the statute cited so as to render the expense of its prosecution after the expiration of the term of office of the Sheriff a charge against the City. I am of opinion that this question must be answered in the affirmative, in view of the fact that the right of the Sheriff to bring and to continue this proceeding was necessarily involved in the determination thereof, and must have been considered by the Court of Appeals in arriving at its decision. The amount allowed, however, must be confined to the expense of the proceeding whether for counsel fee or otherwise to acts performed after the expiration of the term of office of the Sheriff, namely December 31, 1907. This would necessarily exclude any compensation for the preparation of the case and for the argument at the Special Term in November, 1907, and any expense which might have been incurred before January 1, 1908. I am not asked to pass upon the proper amount to be allowed, as that is a matter peculiarly within the discretion of the Board of Estimate and Apportionment."

Herewith transmitted is an affidavit by Henry F. Cochrane, in which he deposes that "he is counsel for Michael J. Flaherty, late Sheriff of the County of Kings, and that the bill heretofore presented to The City of New York for legal services since December 31, 1907, up to January 1, 1908, is for services exclusively performed since the expiration of the term of office of said Michael J. Flaherty and were wholly performed within the year 1908, and that there is not included therein any charge for any services performed prior to the 31st day of December, 1907."

It would appear from the facts respecting these claims that the Board of Estimate and Apportionment would be justified in allowing to this claimant the sum of $648 for his reasonable costs and counsel fees, in proceeding with and completing during the year 1908, the execution of mandates he began to execute before the expiration of his term of office, and the further sum of $3,911.27, for his reasonable costs and counsel fees incurred during the year 1908, in prosecuting and defending actions or proceedings brought by or against him for any alleged act or omission or misconduct in his official capacity.

It is recommended that this report and the above mentioned report, dated May 21, 1909, be transmitted to the Board of Estimate and Apportionment for its consideration and such action as may be appropriate.

Respectfully,

JOS. L. HANCE, Auditor of Accounts.

Approved:

J. T. MAHONEY, Chief, Bureau of Law and Adjustment.

N. TAYLOR PHILLIPS, Deputy and Acting Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 464 of the Laws of 1903, hereby audits and allows as a proper charge against The City of New York, the claims of Michael J. Flaherty, former Sheriff of Kings County, at the sums of six hundred and forty-eight dollars ($648), and three

thousand nine hundred and eleven dollars and twenty-seven cents ($3,911.27), respectively, for professional services in proceeding with and completing the execution of mandates, and for prosecuting and defending actions and proceedings for alleged acts of omission or misconduct in his official capacity, after the expiration of his term of office as Sheriff of Kings County on December 31, 1907.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richman and the Acting President of the Borough of Manhattan—16.

The Secretary presented the following communication from the Chief Engineer submitting first report of Messrs. Polakov and Russell giving the results of the investigation of the preventable wastes and losses in coal consumption in the plants of the Department of Water Supply in the Borough of Brooklyn, stating that the report contains information which it is believed will be of value to the different Departments, and recommending that it be printed as a pamphlet for distribution among such Department:

REPORT No. 90.

BOARD OF ESTIMATE AND APPORTIONMENT,
OFFICE OF THE CHIEF ENGINEER,
September 27, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, Chairman of the Board of Estimate and Apportionment:*

SIR—Dr. Walter N. Polakov and Mr. William A. Russell were appointed by resolution adopted by the Board of Estimate and Apportionment on February 19, 1909, to investigate, under the direction of the Chief Engineer of the Board, the preventable wastes and losses in coal consumption in the various plants operated by the City. The work was undertaken in accordance with this authority, and the first report of Messrs. Polakov and Russell has been presented to me under date of September 16, 1909, and it is herewith transmitted to the Board.

The number of individual coal burning plants maintained by the City for power and heating is so great that it was found necessary to concentrate the investigation on large plants of one Department, and the Department of Water Supply, Gas and Electricity, in the Borough of Brooklyn, was selected, not because it was believed that the wastes were relatively great, but for the reason that it has the largest coal consuming plants, and its organization was such that the work could be thoroughly and satisfactorily accomplished. Mr. John H. O'Brien, the Commissioner at the head of the Department, expressed his willingness that this should be done, and has offered every facility for the conduct of the investigations. There has recently been a reorganization of the engineering staff of the Department in the Borough of Brooklyn, and the Chief Engineer, Mr. Walter E. Spear, has been endeavoring to ascertain for himself the efficiency of these plants, and there has been a co-operation between the technical staff of the Department and the Engineers appointed by the Board which has made it possible to present some tangible results.

I cannot but believe that an investigation of this kind is likely to produce substantial results, as its object is not to devise new methods of accounting, but to see whether or not the money expended for fuel produces the greatest amount of energy of which it is capable, and whether or not this energy is transformed into power at the pumps with as little loss as possible.

Commercial plants all over the country have only begun to realize the enormous wastes in power production, and while the results obtained in the plants of the Department of Water Supply, Gas and Electricity appear to have been somewhat above the average, it is unquestionably true that very substantial economies might be effected.

The report is accompanied by a number of appendices giving the results of parallel sampling, of coal and ash analyses, and of analyses of boiler feed water, and also a description of a number of boiler tests with their results, some of which are shown graphically. There is also submitted a proposed standard specification for the furnishing and delivery of coal on a basis of payment by heating units instead of by weight.

The report recommends an increase in the capacity of the chemical laboratory of the Department of Water Supply, Gas and Electricity and the establishment of a small analytical laboratory at the Ridgewood Pumping Station. The small branch laboratory might be useful in securing quick results of coal analyses, and under the present system of independent laboratories in different Departments, an increase in the capacity of the Water Department's central laboratory at the Mount Prospect Reservoir would probably be desirable. In my opinion, however, a single laboratory in which tests and analyses for all City Departments could be made, and through which might be conducted valuable research work and efficiency tests, could be conducted at an expense little, if any, greater than that of the large number of small laboratories now maintained by the different City Departments, while the results secured by such an institution would be extremely valuable.

I believe that the report submitted by Messrs. Polakov and Russell will be of interest and value to the different City Departments using fuel, and it is recommended that it be printed for distribution among such Departments.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The Comptroller moved that the report of Messrs. Polakov and Russell be printed in pamphlet form and copies of the same be transmitted to the Departments affected.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented a communication from the President of the Borough of Brooklyn, submitting for immediate consideration the question as to whether or not the policy of the Board adopted in October, 1908, be abandoned by disregarding the recommendations of the Engineer Committees on Sewers and Highways appointed at that time and thereafter made standing committees by resolution of the Board, and urging action on the resolution introduced at the meeting held October 15, 1909, and referred to the Borough Presidents, relative to Budget allowances for the maintenance of sewers and highways, etc.

Which was laid over.

The Secretary presented a communication from the President of the Borough of Brooklyn, submitting communication from the Chief Engineer of Sewers relative to cost data for the maintenance of sewers.

Which was referred to the Chief Engineer of the Board.

The Secretary presented communications as follows:

From the Secretary of the Park Board, transmitting for action by the Board twelve bids or proposals for the installation of the electric light and power plant in the New York Public Library, Astor, Lenox and Tilden Foundations.

From Hotchkiss, Barber and McGuire, attorneys for Watson-Flagg Engineering Company, protesting against the award of the contract to the lowest or next lowest bidder and demanding that contract be awarded to their clients.

From the President and General Manager, Home Title Insurance Company of New York, protesting against the selection by the Justices of the Supreme Court, Kings County, of the site for a new Court House.

From the Commissioner of Public Charities, requesting an issue of $77,600 Corporate Stock in addition to the sum heretofore authorized for the construction of the proposed new Bradford Street Hospital, Borough of Brooklyn.

Which were referred to the Comptroller.

The Secretary presented an opinion of the Corporation Counsel, to whom, on October 8, 1909, was referred the report of the Comptroller recommending the establishment of additional grades of positions in the office of the Surrogate of Kings County, to determine whether said Surrogate has the power to increase salaries without first obtaining authority from the Board of Estimate and Apportionment and from the Board of Aldermen, advising the Board that the Surrogate of Kings County has no power to increase salaries in the absence of authority from the Board of Estimate and Apportionment and from the Board of Aldermen, section 1583 of the Charter providing that the salaries of all county officers in the counties of New York, Kings, Queens and Richmond, shall, unless otherwise provided by law, be fixed by the Board of Aldermen on recommendation of the Board of Estimate and Apportionment.

Which was referred to the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, for its information.

The Secretary presented the following communication from the President, Board of Education, requesting, and report of the Comptroller, recommending, a further modification of the schedules of Salaries and Salaries and Wages, accompanying the Budget for the year 1909, for the Department of Education, involving no additional appropriation:

BOARD OF EDUCATION,
PARK AVENUE AND FIFTY-NINTH STREET,
NEW YORK, October 21, 1909.

Hon. H. A. METZ, *Comptroller:*

DEAR SIR—Referring further to sundry matters mentioned in your letter of the 4th inst., in regard to names removed from the payrolls of this Department for the month of September, 1909, and to the conference held by Mr. Barrett and myself with you yesterday, I would request that the salary schedules for the offices of the Secretary, the Auditor, the City Superintendent of Schools, the Superintendent of School Supplies, the Superintendent of School Buildings, the Supervisor of Janitors and the District Superintendents be modified as follows:

No. 857, Office of the Secretary.

Strike out Telephone Switchboard Operator, $750, and insert, Telephone Switchboard Operator, $480; add a line, held in reserve, $270.

No. 858, Office of the Auditor.

Strike out Clerks, 5 at $1,200, $6,000, and insert Clerks, 4 at $1,200, $4.800; strike out Clerk, $1,050 and insert Clerks, 2 at $1,050, $2,100; strike out Cataloguer, $600, and insert Clerk (Cataloguer), $600; add a line, held in reserve, $150.

No. 859, Office of the City Superintendent of Schools.

Strike out Statistician, $1,950, and insert Statistician, $1,800; strike out Clerks, 5 at $1,200, $6,000, and insert Clerks, 6 at $1,200, $7,200; strike out Clerks, 7 at $1,050, $7,350, and insert Clerks, 6 at $1,050, $6,300.

No. 861, Office of the Superintendent of School Supplies.

Strike out Bookkeeper, $1,800, and insert Bookkeeper, $1,650; strike out Fuel Inspector, $1,650; strike out Fuel Inspectors, 3 at $1,350, $4,050, and insert Fuel Inspectors, 4 at $1,350, $5,400; strike out Fuel Inspector, $1,300; strike out Fuel Inspectors, 4 at $1,150, $4,600, and insert Fuel Inspectors, 5 at $1,150, $5,750; strike out Clerks, 5 at $1,200, $6,000, and insert Clerks, 2 at $1,200, $2,400; strike out Clerks, 7 at $1,050, $7,350, and insert Clerks, 9 at $1,050, $9,450; add a line, Clerk, $1,199.99; strike out Orderly, $1,500, and insert Orderly, $1,350; strike out Gymnasium Attendant, $1,500, and insert Gymnasium Attendant, $1,200; strike out Seamstress, $900, and insert Seamstress, $750; strike out Cleaners, 8 at $750, $6,000, and insert Cleaners, 7 at $750, $5,250; add a line, Laborer, $600; strike out Temporary Help, $5, and insert Temporary Help, $155; add a line, held in reserve, $1,500.01.

No. 862, Office of the Superintendent of School Buildings.

Strike out Deputy Superintendent, $2,550, and Assistant to Superintendent, $2,550, and insert Assistants to Superintendent, 2 at $2,550, $5,100; strike out Sanitary Inspector, $3,250, and insert Sanitary Assistant, $3,250; strike out Stenographer and Typewriter, $750; strike out Clerk, $750, and insert Clerks, 2 at $750, $1,500; strike out Stenographer, $1,650, and insert Stenographer and Typewriter, $1,650; strike out Stenographer, $1,500, and insert Stenographer and Typewriter, $1,500; strike out Stenographer and Typewriter, $600 and Typewriting Copyist, $600, and insert Stenographers and Typewriters, 2 at $600, $1,200.

No. 860, Offices of District Superintendents.

Strike out Stenographers and Typewriters, 8 at $600, $4,800, and insert Stenographers and Typewriters, 6 at $600, $3,600; add a line Typewriting Copyists, 2 at $600, $1,200

No. 863, Office of the Supervisor of Janitors.

Strike out Emergency Janitor-Engineers, 3 at $2,500, $7,500, and insert Assistant Supervisors of Janitors, 3 at $2,500, $7,500.

This request is made in order that faithful and efficient employees of this Department, many of whom have been long in the service, may without further delay receive such portion of their salaries as was paid to them without question prior to September last. Owing to Civil Service, legal and other complications, such as non-action by the Board of Estimate and Apportionment on requests for the fixation of salaries made by this Board many months ago, the payrolls have not conformed in all respects with the Budget schedules, but in no case have salaries as appearing on the payrolls been in excess of the Budget allowance.

The modifications herewith submitted are of a temporary and provisional character, and are requested without prejudice to any rights which these employees may have; and it is our understanding that the amounts indicated as to be held in reserve will be so held pending the adjustment of the complications above referred to. I shall be obliged if you will advise me whether this understanding of the result of yesterday's conference is correct. It is the intention of this Department that the salaries as heretofore fixed shall be paid as soon as the difficulties arising from the causes already mentioned are removed, and further changes in the Budget schedules will be requested from time to time as may be deemed necessary.

Trusting that prompt action will be taken so that supplementary payrolls may be prepared and passed at an early date, I remain,

Very truly yours,

EGERTON L. WINTHROP, JR., President, Board of Education.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 23, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Reporting further in reference to necessary changes in the salary schedules of the official and clerical staff of the Board of Education, the detail of which matter was presented to your Board in my previous report and recommendations relating thereto under date of October 13, I would respectfully recommend that Schedules Nos. 857, 858, 859, 860, 861, 862 and 863 be modified, as requested in a subsequent communication from the President of the Board of Education submitted herewith, according to the resolution attached hereto.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following salary schedules as revised for the Department of Education for the year 1909:

Special School Fund, General Administration, Salaries and Wages—

858. Office of the Auditor:

Auditor	$5,500 00
Clerk	3,000 00
Clerk	2,100 00
Clerk	1,800 00
Clerk	1,500 00
Bokkeeper	1,950 00
Examiners of Claims, 8 at $1,500 each	12,000 00
Examiner of Claims	1,200 00
Clerks, 3 at $1,350 each	4,050 00
Clerks, 4 at $1,200 each	4,800 00
Clerks, 2 at $1,050 each	2,100 00
Clerks, 4 at $900 each	3,600 00
Typewriter Accountant	900 00
Clerk	660 00
Clerks, 2 at $600 each	1,200 00
Clerk	540 00
Clerks, 4 at $400 each	1,600 00
Clerks, 8 at $300 each	2,400 00
Clerk (Cataloguer)	600 00
Stenographer and Typewriter	1,350 00
Unassigned balance	320 00
	$53,170 00

Special School Fund, General Administration, Salaries and Wages—

857. Office of the Secretary:

Secretary	$5,500 00
Assistant Secretary	3,500 00
Chief Clerk	3,000 00
Clerk	2,250 00
Clerks, 5 at $1,950 each	9,750 00
Clerk	1,500 00
Clerk	1,200 00
Clerks, 2 at $1,050 each	2,100 00
Clerk	750 00
Clerk	600 00
Clerks, 2 at $420 each	840 00
Stenographer and Typewriter	2,500 00
Stenographer and Typewriter, 2 at $1,500 each	3,000 00
Stenographer and Typewriter	1,350 00
Typewriting Copyist	1,050 00
Typewriting Copyist	900 00
Telephone Switchboard Operator	900 00
Telephone Switchboard Operator	480 00
Telephone Switchboard Operator	600 00
Librarian	1,050 00
Unassigned balance	300 00
	$43,120 00

Special School Fund, Administration, Salaries and Wages—

859. Office of the City Superintendent of Schools:

Head Clerk	$4,000 00
Statistician	1,800 00
Clerk, with knowledge of statistics	1,200 00
Clerk	3,500 00
Clerk	2,500 00
Clerks, 3 at $1,650 each	4,950 00
Clerks, 3 at $1,500 each	4,500 00
Clerks, 4 at $1,350 each	5,400 00
Clerks, 6 at $1,200 each	7,200 00
Clerks, 6 at $1,050 each	6,300 00
Clerks, 4 at $900	3,600 00
Clerk	750 00
Clerk	480 00
Clerks, 3 at $300 each	900 00
Stenographer and Typewriter	1,650 00
Stenographers and Typewriters, 6 at $1,500 each	9,000 00
Stenographers and Typewriters, 3 at $1,350 each	4,050 00
Stenographers and Typewriters, 7 at $1,200 each	8,400 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	750 00
Stenographer and Typewriter	600 00
Typewriting Copyist	1,350 00
Typewriting Copyist	1,050 00
Typewriting Copyist	900 00
Typewriting Copyist	750 00
Typewriting Copyist	600 00
	$77,230 00

Special School Fund, Administration, Salaries and Wages—

861. Office of the Superintendent of School Supplies—

Superintendent	$7,500 00
Deputy Superintendent	3,600 00
Deputy Superintendent	1,950 00
Bookkeeper	1,650 00
Supply Clerk	1,650 00
Supply Clerk	900 00
Clerk	2,500 00
Clerk	2,000 00
Clerk	1,950 00
Clerk	1,800 00
Clerks, 2 at $1,500 each	3,000 00
Auto-truck Engineman and Mechanic	1,500 00
Auto-truck Driver	900 00
Clerks, 2 at $1,350 each	2,700 00
Clerks, 2 at $1,200 each	2,400 00
Clerks, 2 at $1,150 each	2,300 00
Clerk	1,199 99
Clerks, 9 at $1,050 each	9,450 00
Clerks, 5 at $900 each	4,500 00
Clerks, 2 at $750 each	1,500 00
Clerks, 2 at $540 each	1,080 00
Clerks, 10 at $420 each	4,200 00
Clerks, 14 at $300 each	4,200 00
Stenographer and Typewriter	1,650 00
Stenographer and Typewriter	1,500 00
Stenographers and Typewriters, 3 at $1,050 each	3,150 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Stenographer and Typewriter	600 00
Fuel Inspector	2,000 00
Fuel Inspectors, 3 at $1,500 each	4,500 00
Fuel Inspectors, 4 at $1,350 each	5,400 00
Fuel Inspectors, 5 at $1,150 each	5,750 00
Toolmen, 2 at $1,050 each	2,100 00
Laborer	1,050 00
Laborers, 7 at $900 each	6,300 00
Laborer	750 00
Laborer	600 00
Orderly	1,350 00
Orderly	1,050 00
Cleaners, 9 at $900 each	8,100 00
Cleaners, 7 at $750 each	5,250 00
Cleaners, 12 at $600 each	7,200 00
Seamstress	750 00
Gymnasium Attendant	1,200 00
Typewriting Copyist	1,050 00
Unassigned balance	1,655 01
	$129,035 00

Special School Fund, Administration, Salaries and Wages—

862. Office of the Superintendent of School Buildings:

Superintendent	$10,000 00
Deputy Superintendents, 3 at $4,500 each	13,500 00
Deputy Superintendent	3,500 00
Deputy Superintendent	3,000 00
Assistant Superintendents, 2 at $2,550 each	5,100 00
Sanitary Assistant	3,250 00
Chief Clerk	3,500 00
Accountant	2,400 00
Clerk	1,800 00
Clerk	1,200 00
Clerks, 2 at $1,050 each	2,100 00
Clerks, 2 at $750 each	1,500 00
Clerk	540 00
Clerks, 2 at $480 each	960 00
Stenographer and Typewriter	1,650 00
Stenographer and Typewriter	1,500 00
Stenographers and Typewriters, 6 at $1,350 each	8,100 00
Stenographer and Typewriter	900 00
Stenographers and Typewriters, 2 at $600 each	1,200 00
Typewriter	1,350 00
Clerk	300 00
Typewriting Copyist	750 00
Typewriting Copyists, 2 at $600 each	1,200 00
Telephone Switchboard Operator	600 00
Cleaner	900 00
Clerk	420 00
	$71,220 00

Special School Fund, Administration, Salaries and Wages—

860 Office of District Superintendents:

Clerks, 7 at $900 each	$6,300 00
Typewriting Copyists, 4 at $900 each	3,600 00
Typewriting Copyists, 2 at $600 each	1,200 00
Stenographers and Typewriters, 3 at $750 each	2,250 00
Stenographers and Typewriters, 6 at $600 each	3,600 00
Stenographer and Typewriter	900 00
	$17,850 00

Special School Fund, Administration, Salaries and Wages—

863. Office of the Supervisor of Janitors:

Supervisor of Janitors	$3,000 00
Assistant Supervisors of Janitors, 3 at $2,500 each	7,500 00
Clerk	1,050 00
Clerk	900 00
	$12,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented a report of the Comptroller, referring to the request of the Commissioner of Bridges for authority, pursuant to resolution adopted December 18, 1908, to advertise and award a contract for painting the Queensboro Bridge, at a cost not to exceed $175,000, and suggesting, in view of the fact that this season of the year appears to be inopportune for so large and hazardous an undertaking, that this work be deferred until the spring.

Which was ordered on file and the Secretary directed to send a copy of said report to the Commissioner of Bridges.

(On September 17, 1909, the above request was referred to the Comptroller.)

The Secretary presented a report of the Comptroller, referring to the request of the Commissioner of Correction, for authority, pursuant to resolution adopted December 18, 1908, to proceed with the execution of a contract for a group of buildings for the new penitentiary on Rikers Island, chargeable against Corporate Stock heretofore authorized in the sum of $2,250,000 and recommending that the Commissioner be advised to submit plans and specifications already prepared for said buildings, permission to proceed with the execution of the contract to be contingent upon the approval of the plans and specifications by this Board.

Which was referred to the Commissioner of Correction.

(On September 24, 1909, the above request was referred to the Comptroller.)

The Secretary presented the following communication from the Commissioner of Parks, Borough of The Bronx, requesting authority, pursuant to resolution adopted December 18, 1908, to proceed with various improvements chargeable against Corporate Stock heretofore authorized, together with report of the Comptroller, recommending the granting of said request, to the extent of expending the sum of $10,000 for the purpose of eliminating swamp lands, and construction of drainage system in Pelham Bay Park, along the line of the New York, New Haven and Hartford Railroad.

(On September 24, 1909, a communication from the Commissioner of Parks, renewing request of April 21, 1909, for authority to proceed with various improvements, was referred to the Comptroller.)

DEPARTMENT OF PARKS—BOROUGH OF THE BRONX,
ZBROWSKI MANSION, CLAREMONT PARK,
NEW YORK, September 22, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, and Chairman of the Board of Estimate and Apportionment,* City Hall, New York City:

SIR—I herewith respectfully renew application made to your Honorable Board on April 21, 1909, for the release of Corporate Stock heretofore appropriated for construction and improvement of The Bronx parks. The following is a list of the said appropriations, with their unexpended balances:

ADOPTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT, MAY 4, 1906.

General Title—Improvement and Construction of Parks, Parkways, Playgrounds, Boulevards and Driveways, Borough of The Bronx.

	Balance, April 16, 1909.
Sub-title—Construction of lake for the purpose of eliminating swamp area, Van Cortlandt Park	$70,000 00
Sub-title—To provide means for the construction of a drain to take overflow water from the lake in Van Cortlandt Park to the sewer already constructed in Broadway (Board of Estimate and Apportionment, November 20, 1908)	30,000 00

The low, marshy ground south of the road leading from the Van Cortlandt Park station to Broadway, is both unsightly and unsanitary.

At first, when the $70,000 above set forth was appropriated, it was proposed to build a lake therein; but this was found to be impracticable, and, after frequent meetings and discussions with residents of Riverdale, it was decided to build an 8-foot drain. Plans and specifications were prepared and bids advertised for. The lowest bid was in the neighborhood of $100,000, and the additional sum of $30,000 was granted. To eliminate any legal question as to the right to expend the entire sum for the building of the drain, the resolution should be amended.

Sub-title—Cleaning, deepening and filling lake, Van Cortlandt Park	9,676 66

During the year 1906 there was expended $3,323.34. Nothing was done in 1907, because the money was not released until the summer. It is intended to complete the work necessary to put the lake in proper condition, and the work must be done before frost sets in, if the lake is to be put in conditioon for skating. This work should have been done this spring, as a fouling growth due to the delay has made more difficult this necessary improvement.

Sub-title—Construction of foot bridge over falls in Bronx Park	8,000 00
Sub-title—Construction of foot bridge over falls in Bronx Park	5,000 00

The present structure is an old wooden bridge completely out of repair, and is in such a dangerous condition that it has had to be closed.

This bridge is an artery of circulation to and from the Botanical Gardens, the authorities of which are as anxious as I to have the new bridge built.

The first amount being insufficient, a further appropriation was requested, and an additional appropriation of $6,000 was granted by the Board of Estimate and Apportionment, on June 7, 1907. Plans have been approved by the Art Commission, the specifications for the work are prepared, and, when the amount has been released, the contract will be advertised and let.

Sub-title—Eliminating swamp lands and construction of drainage system in Pelham Bay Park, along the line of the New York, New Haven and Hartford Railroad	10,000 00

These golf links are soggy and marshy. It is impossible to keep them in condition, except during spells of extremely dry weather, and these conditions will prevail until this drainage system is completed.

Sub-title—Filling in and draining swamp land other than that south of garden, Van Cortlandt Park	10,000 00

The above land lies between Jerome avenue and Mount Vernon avenue, and is very low, marshy ground, a perfectly natural spot for the breeding of mosquitoes, malarial and other diseases. The residents of Woodlawn have frequently complained of this condition. The swamp will and should be eliminated by the installation of this drainage.

Sub-title—Improvement of Pelham Bay Park, along Pelham Bay shore	373 38

ADOPTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT SEPTEMBER 20, 1907.

Department of Parks—Comfort station east side of Broadway, Van Cortlandt Park, The Bronx	15,000 00

At this point, the erection of a building combining a reviewing stand, comfort station, and dressing room for athletes, is an absolute necessity. A large number of people daily play, on this field, polo, lacrosse, baseball, football, cricket and tennis. Military events are also of frequent occurrence. Comfort and dressing facilities should be provided. The necessity is emphasized by the present Fulton-Hudson celebration.

Department of Parks—Comfort station, athletic field, Macombs Dam Park	10,000 00

The same conditions as to lack of shelter and comfort facilities exist in this park, where a very fine running track and many other athletic facilities have been constructed and erected, and are being patronized by thousands of the pupils of public schools, and others, whose games are witnessed by thousands of our people. The need of this is also made very apparent at the present time.

ADOPTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT MAY 1, 1908.

Department of Parks—Constructing and repaving of drives, etc., under contract		$167,496 92
Payments on contracts	$83,919 51	
Balance due on contracts	615 00	
Pay on payrolls	4,323 59	
Released on July 2, 1909	3,500 00	
	92,358 10	
		75,138 82

An additional appropriation of $103,000 for the above was authorized by your Honorable Board on July 2, 1909, and the release of the balance mentioned above is absolutely necessary to carry out the much needed improvements.

ADOPTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT JUNE 7, 1907.

Work Reauthorized by Resolution of the Board of Estimate and Apportionment, Adopted May 1, 1908.

General Title—Department of Parks, Borough of The Bronx.		
Sub-title—Laying asphalt walks on concrete foundation in place of present walks in St. Marys Park	$6,488 13	
Contract liabilities	1,519 40	
		4,968 73

Trusting that the same may receive immediate and favorable consideration, I remain,

Respectfully,

JOSEPH I. BERRY, Commissioner of Parks, Borough of The Bronx.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 18, 1909.

The Honorable the Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Commissioner of Parks, Borough of The Bronx, renewing his request of April 21, 1909, for authority, pursuant to a resolution adopted December 18, 1908, to proceed with various improvements chargeable against Corporate Stock heretofore authorized, which matter was referred to me for consideration, I submit the following report:

At a meeting of the Board of Estimate and Apportionment held May 4, 1906, a resolution was adopted authorizing, pursuant to the provisions of section 47 of the Greater New York Charter, an issue of Corporate Stock of The City of New York to the amount of three hundred and sixty-nine thousand dollars ($369,000) to provide means for the construction and improvement of parks, parkways, playgrounds, boulevards and driveways under the jurisdiction of the Commissioner of Parks for the Borough of The Bronx.

The expenditure of any money chargeable to this account has been held up under a resolution of the Board of Estimate and Apportionment adopted December 18, 1908, and the present request of the Commissioner only entails a reauthorization, or, in other words, a release of $10,000 of the amount already authorized, and is to be used by the Commissioner for the purposes set forth in the resolution of May 4, 1906, viz.: "Eliminating swamp lands and construction of drainage system in Pelham Bay Park, along the line of the New York, New Haven and Hartford Railroad."

I have caused an examination to be made of the proposed improvement, which discloses the fact that the land in Pelham Bay Park running along the railroad, which is a part of the golf grounds, is at present so wet that it is impossible to keep it in good condition.

It is the Commissioner's intention to fill in all low places by carting the dirt from the high places on the grounds and to run the surface water through underground pipes to the low meadows about three hundred feet below the park. This work must be started at once to avoid the frost and be completed by spring.

In view of the foregoing facts, I recommend favorable action upon the resolution hereunto attached.

Yours respectfully,

H. A. METZ, Comptroller.

The following was offered:

Whereas, The Board of Estimate and Apportionment at a meeting held December 18, 1908, adopted a resolution requesting the heads of the various City Departments and offices not to advertise for contracts nor enter into any further obligations to be paid for by the issues of Corporate Stock, without first submitting the same to the Board of Estimate and Apportionment for reapproval, therefore be it

Resolved, That the request of Commissioner of Parks, Borough of The Bronx, for authority to proceed with the work of eliminating swamp lands, and construction of drainage system in Pelham Bay Park, along the line of the New York, New Haven and Hartford Railroad, at a cost not to exceed ten thousand dollars ($10,000), be and the same is hereby approved, said cost to be chargeable to the issue of Corporate Stock in the sum of $369,000 for the construction and improvement of parks, parkways, playgrounds, boulevards and driveways under the jurisdiction of the Commissioner of Parks for the Borough of The Bronx, authorized by resolution of the Board of Estimate and Apportionment adopted May 4, 1906.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented the following communication from the Fire Commissioner requesting, and report of the Comptroller recommending, that authority be granted to said Commissioner, pursuant to resolution adopted December 18, 1908, to advertise and award a contract for 21,000 feet of underground lead-covered cable, at a cost not to exceed $13,000.

(On October 8, 1909, the above request was referred to the Comptroller.)

HEADQUARTERS, FIRE DEPARTMENT—CITY OF NEW YORK,
NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET,
BOROUGH OF MANHATTAN, October 5, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, and Chairman, Board of Estimate and Apportionment:*

SIR—I have the honor to request permission to advertise for proposals and award contract for furnishing this Department with 21,000 feet of underground lead-covered cable for the Fire Alarm Telegraph branch in the Borough of Brooklyn, the expenditure to be chargeable to Bond Issue of $100,000, authorized by the Board of Estimate and Apportionment January 13, 1905, and adopted by the Board of Aldermen, February 21, 1905 (Code No. 9).

Respectfully,

(Signed) NICHOLAS J. HAYES, Commissioner.

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 18, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Hon. Nicholas J. Hayes, Commissioner, Fire Department, City of New York, in communication dated October 6, 1909, requests the Board of Estimate and Apportionment to advertise and award a contract for 21,000 feet of underground lead-covered cable for the Fire Alarm Telegraph branch in the Borough of Brooklyn.

I would report:

The Fire Department has expended nearly all of an appropriation of $40,000, authorized January 29, 1903, in putting its wires and conduits underground in the vicinity of the headquarters on Jay street and at Sea Gate, Borough of Brooklyn. In addition to this, there has been appropriated $275,000 for the same purpose, as follows:

Appropriated January 13, 1905, $100,000; appropriated November 24, 1905, $175,000, none of which has been expended.

The proposed purchase of 21,000 feet of underground lead-covered cable is estimated to cost $13,000.

The improvement being a valuable one, I would recommend that the resolution of December 18, 1908, be suspended in so far as to permit the Fire Department to advertise and award a contract for underground lead-covered cable at a cost not to exceed $13,000

Respectfully,

H. A. METZ, Comptroller.

The following was offered:

Whereas, The Board of Estimate and Apportionment at a meeting held December 18, 1908, adopted a resolution requesting the heads of the various City Departments and offices not to advertise for contracts nor enter into any further obligations to be paid for by the issues of Corporate Stock without first submitting the same to the Board of Estimate and Apportionment for reapproval; therefore be it

Resolved, That the request of the Fire Commissioner for authority to advertise and award a contract for furnishing 21,000 feet of underground lead-covered cable, at a cost not to exceed thirteen thousand dollars ($13,000), be and the same is hereby approved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented the following supplemental report of the Comptroller, recommending an issue of $198,000 Corporate Stock for the purpose of providing means for improving the distribution facilities at Bayside and in the First and Third Wards of the Borough of Queens, in connection with the water supply system for said Borough.

(On July 2, 1909, the Board authorized an issue of $60,500 Corporate Stock for improving conditions at the Whitestone and Flushing stations, on the recommendation of the Comptroller reporting on the request of the Commissioner of Water Supply, Gas and Electricity for an issue of $264,550 Corporate Stock to provide for various improvements in connection with the water supply for the Borough of Queens; the balance of the appropriation was to be made the subject of a further report.)

(The communication from said Commissioner requesting the issue of $264,550 Corporate Stock, as above, is printed in the minutes of meeting held July 2, 1909.)

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 13, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Hon. John H. O'Brien, Commissioner, Department of Water Supply, Gas and Electricity, under date of June 25, 1909, made application to the Board of Estimate and Apportionment for its authorization of an issuance of $264,550 worth of Corporate Stock for the purpose of providing means for improving the water supply system of the Borough of Queens.

By report of June 28, 1909, it was shown that these moneys were intended to be apportioned in the amounts of $22,550 for the installation of additional wells and machinery at the Whitestone Pumping Station, in the sum of $44,000 for wells and machinery at the Flushing Pumping Station, and in the sum of $198,000 for additional distribution and main facilities at Bayside and in the First and Third Wards.

It was recommended that Corporate Stock in the amount of $60,500 be authorized for the purpose of providing means for improving conditions at the Whitestone and Flushing stations, leaving for further consideration the item of $198,000 as requested for improving distribution facilities, which amount, $60,500, was authorized by the Board on July 2, 1909 (pages 3982 to 3985, minutes of 1909).

With this money it is proposed to lay a 24-inch distribution main from the Bayside Station to the Murray Hill section, a stretch of about four miles, at a cost of approximately $141,200, and additionally about four miles of distribution mains, from 8 inches to 12 inches diameter, in some eighteen streets, at a cost of $29,700.

Requests for water service for streets other than those originally contemplated to be served within this territory indicate that the excess of $27,100 should be allowed to permit keeping pace with the building development of the region.

I therefore recommend that the Board of Estimate and Apportionment authorize the Comptroller, pursuant to section 178 of the Greater New York Charter, to issue Corporate Stock to the amount of $198,000 for the improvement of the distribution facilities at Bayside and in the First and Third Wards, Borough of Queens, being hitherto unreported on allowance for this purpose requested by the Commissioner of Water Supply, Gas and Electricity, under date of June 25, 1909.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred and ninety-eight thousand dollars ($198,000), for the improvement of the water supply system of the Borough of Queens, as set forth in said section 178 of the Charter (in addition to the issue of $60,500 Corporate Stock authorized on July 2, 1909), by improving the distribution facilities at Bayside and in the First and Third Wards, Borough of Queens; and for the purpose of providing the necessary means therefor, the Comptroller be and is hereby authorized to issue Corporate Stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and ninety-eight thousand dollars ($198,000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented the following communication from the Commissioner of Docks requesting, and report of the Comptroller recommending, that authority be granted to said Commissioner, pursuant to resolution adopted December 18, 1908, to advertise and award a contract for building a new pier at the foot of Thirty-third street, Brooklyn, at a cost not to exceed $312,500.

(On October 8, 1909, the above request was referred to the Comptroller.)

DEPARTMENT OF DOCKS AND FERRIES,
PIER "A," NORTH RIVER,
NEW YORK, September 29, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor, and Chairman of the Board of Estimate and Apportionment.*

SIR—I respectfully request authority to advertise and award a contract for building a new pier at the foot of Thirty-third street, Brooklyn, at an estimated cost of $312,500.

Yours respectfully,

ALLEN N. SPOONER, Commissioner of Docks.

The dredging for this pier has been completed and the Dock Commissioner states that he has had several applications for the pier.

The improvement being a valuable and necessary one I would advise that the resolution of December 18, 1908, be suspended in so far as to permit the Department of Docks and Ferries to advertise and award a contract for building a new pier at the foot of Thirty-third street, Brooklyn, at a cost not exceeding $312,500.

Respectfully,

H. A. METZ, Comptroller.

The following was offered:

Whereas, The Board of Estimate and Apportionment at a meeting held December 18, 1908, adopted a resolution requesting the heads of the various city departments and offices not to advertise for contracts nor enter into any further obligations, to be paid for by the issues of Corporate Stock, without first submitting the same to the Board of Estimate and Apportionment for reapproval; therefore be it

Resolved, That the request of the Commissioner of Docks and Ferries for authority to advertise and award a contract for building a new pier at the foot of Thirty-third street, Borough of Brooklyn, at a cost not to exceed three hundred and twelve thousand five hundred dollars ($312,500), be and the same is hereby approved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Secretary presented communications as follows:

From the Commissioner of Public Charities, requesting an additional issue of $1,350,000 Corporate Stock to complete the construction of the Sea View Sanatorium on Staten Island.

From the Chief Engineer concerning the amount of water recently delivered under the contract of Silas W. Titus and the attitude of the Department of Health concerning the supply, and stating that the plant has recently been furnishing slightly more than 5,000,000 gallons per day; the records of the Department of Water Supply showing that the amount of chlorine is nearly twice as great as the maximum average amount specified in the contract; the attitude of the Health Department being that the water at present is not liable to transmit disease, but that it is not a source of supply which should be used any longer than necessary.

(This report was made in accordance with instructions given the Chief Engineer on October 8, 1909.)

The communications were referred to the Comptroller.

The Secretary presented the following communication from the President of the Borough of Brooklyn requesting that there be placed upon the calendar for consideration by the Board at the meeting to be held October 29, 1909: Six communications from the Public Service Commission for the First District (presented to the Board at the meeting held June 5, 1908, and referred to the Comptroller), relative to the execution of contracts for the construction of six sections of the Fourth Avenue Subway, in Brooklyn, and requesting an authorization of Corporate Stock in the sum of $2,850,000 for the expenses incident thereto, together with a supplemental communication from said Borough President, dated October 27, 1909, relative thereto; communication from the Corporation Counsel advising that the injunction in the action of Levy against the Board of Estimate and Apportionment, restraining said Board from taking any action in the above matter, has been vacated and set aside, and that this litigation no longer prevents the Board from taking such action as it deems proper; also communication from the Corporation Counsel furnishing a statement of the facts and situation as to the proposed Fourth Avenue Subway:

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 25, 1909.

The Honorable the Board of Estimate and Apportionment:

GENTLEMEN—By the filing of decision of the Court of Appeals on the debt limit of the City in the so-called Levy case, the stay granted in that and in the Fleischman case will be vacated and there will be nothing to prevent a vote on the application of the Public Service Commission for the First District for the consent of the Board to the execution of contracts for the construction of six sections of the Fourth Avenue Subway, in the Borough of Brooklyn, and to authorize a Corporate Stock issue for the expenses incident thereto.

The members of the Board will then be free to vote on the resolution and consent to these contracts, directing the Comptroller to issue bonds for the amounts required and prescribed for construction, as provided for in section 37 of the Rapid Transit Act, chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, as the Court of Appeals decision has definitely established the fact that the City has ample margin within the limit of legal indebtedness prescribed by the State Constitution to allow the issue of all necessary bonds for this proposed subway construction, and I request that the certain six communications of May 26, 1908, from the Public Service Commission, received by the Board of Estimate and Apportionment, as announced by the Secretary and published in the calendar of the Board at the meeting of June 5, 1908, be now placed upon the regular calendar of the Board for consideration at the meeting of Friday, the 29th inst., with the forms of resolutions necessary to comply with the requisition of the Public Service Commission, under which the Board may now properly consent to these contracts made by the Public Service Commission and may direct the Comptroller to issue bonds of the City, bearing interest at a rate determined by the Commissioners of the Sinking Fund, to an amount considered necessary to meet the expense of carrying out such contracts.

These contracts to be passed upon by the Board provide for the construction of that portion of the Brooklyn subway system which extends from Manhattan Bridge, through Flatbush avenue extension, Fulton street, Ashland place, Atlantic avenue and Fourth avenue to the vicinity of Forty-third street, and with appurtenant pipe galleries involve a total expenditure, during a term of about three years, of the sum of $15,886,361.20, on which the immediate authorization of Corporate Stock to the amount of $2,850,000 is requested.

Of the total contract cost about 30 per cent., or approximately $4,617,000, is for the construction of Sections 1 and 2, reaching from Manhattan Bridge to the junction of Fulton street and Ashland place, all of which is required for the Broadway-Lafayette avenue route, as well as for the Fourth avenue route, and the plans also call for spurs and connections with this trunk line in Flatbush avenue extension at Willoughby street and at other points where the broad scheme of intercommunication with the existing and new subway lines and tubes projected has been provided

for by the Public Service Commission plans, these plans and forms of contracts having been approved by this Board on March 28, 1908, being, as a matter of fact, a portion of the rapid transit route approved by this Board as the Tri-Borough route on December 7, 1906, except for a short stretch on Fulton street designed to extend to Broadway, while the Tri-Borough route, as approved by this Board, provided for a line over the Williamsburg Bridge extending up Broadway to Jamaica avenue.

Very truly yours,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 27, 1909.

The Honorable the Board of Estimate and Apportionment:

GENTLEMEN—In connection with my communication to you of the 25th inst., requesting consideration of the Fourth Avenue Subway contracts, I would state that at a meeting of a committee of the Board, comprising the Comptroller, the President of the Board of Aldermen and the President of the Borough of Brooklyn, appointed to confer with the Public Service Commission on questions relating to these subway contracts, it was suggested that heavy damages might be found against the City in favor of owners of abutting property who had retained a fee in the bed of the street, from the fact that in the proceedings by which the street had been acquired the law did not specifically provide for the use of the street for subway purposes.

It was to meet this objection that I undertook at that time to secure from the owners of abutting property such consents as could voluntarily be had, on a form which had been prepared by counsel of the Public Service Commission, and the work of procuring these consents, on which only one man has been constantly engaged since that time, has met with a very fair measure of success, and at the present time I have filed in my office releases to the City, allowing subway construction, representing more than 39 per cent. of the assessed valuation of the entire property on Fourth avenue, between Flatbush avenue and One Hundred and First street, while the consents already secured in the more valuable property between Flatbush avenue and Forty-third street, represent to-day 30.6 per cent. of the assessed valuations.

It would appear from this that the voluntary transfer to the City of such title as these owners of abutting property may hold, without any payment therefor, should establish such abundant precedent as to valuation of their rights, if they have held any in the street, as to prevent the condition which was apprehended in the event of damage suits after the subway was constructed.

As to what may be anticipated, provided the remainder of the property held out did not file such consents, I have sought to determine how much right in Fourth avenue was, as a matter of fact, vested in the owners of abutting property, and I have requested the Title Guarantee and Trust Company to make a statement from their past searches, also to give me searches of a dozen or more parcels selected at random, which might be a guide as to the proportion of the property fronting on Fourth avenue having any right in the bed of the street.

The Title Company, in the report submitted to me, shows that only a very small percentage of the property fronting on Fourth avenue has retained any control whatever in the street, and it is believed that the searches made give a fair result in the proportion of such control throughout the subway lines contemplated. I attach copy of this report for your better information.

I believe it generally conceded that the Borough of Brooklyn deserves this long-delayed subway extension, which will utilize to a great measure the lower tracks of the Manhattan Bridge, where the City at large has invested some twenty million dollars, and immediate progress toward clearing up the Flatbush avenue approach to this bridge, representing more than three million dollars of investment now lying idle, is much to be desired. Brooklyn has in the past contributed, by credit and in the tax levy, fully one-fifth of the cost of the Manhattan and The Bronx subways; but if it be held by any member of this Board that further work in Manhattan and The Bronx should be carried forward before actual construction on the Fourth Avenue Subway is to begin, I would invite attention to the status of the comprehensive plans and contracts for the Lexington avenue route and other extensions in The Bronx which were authorized for alternate bidding (for construction alone by the City and for construction, equipment and operation with private capital) in June, 1909, and I am informed that this Board will have an opportunity before the first of the year of approving these contracts for advertisement and that bids may be thereupon received.

To explain such statement I attach letter addressed to me by the Chairman of the Public Service Commission on the 26th inst. showing that these construction plans and forms of contracts are nearly completed.

I therefore urge the consent of the Board to the requisition of the Public Service Commission as presented on June 5, 1908, and printed on the calendar for that meeting.

Very truly yours,
BIRD S. COLER, President, Borough of Brooklyn.

TITLE GUARANTEE AND TRUST COMPANY,
No. 175 REMSEN STREET,
BROOKLYN, October 28, 1909.

Hon. BIRD S. COLER, *President of the Borough of Brooklyn,* Brooklyn, N. Y.:

DEAR SIR—Pursuant to your letter of recent date, I beg to state that we have caused an examination of the title to be made to the bed of Fourth avenue in front of various parcels, where we had previously examined the abutting property.

As you know, Fourth avenue was laid out on the Commissioner's map of the City of Brooklyn, 70 feet wide from Flatbush to Carroll street, and 80 feet wide from Carroll to the city line. In 1860 and 1861 the width was changed to 120 feet by adding 50 feet to the west side from Atlantic avenue to Carroll, and 40 feet to the west side from Carroll to the city line.

We find, for instance, that in 1858 the fee of Fourth avenue from Bergen to Wyckoff street was conveyed to the City of Brooklyn.

We find that in 1863, part of Fourth avenue, between First and Third streets, was conveyed to the City.

We also find a deed in 1862 of the front of the corner of Fourth avenue and Twenty-first street to the City.

In addition to these deeds—and there must be others, because in the time allotted, we have not examined thoroughly into the conveyances to the City—we find that Fourth avenue, running from Ninth to Tenth street, is in the same ownership as in 1866, and that the abutting owners have no interest in the fee ownership of the street.

The part of Fourth avenue, between Thirteenth and Fourteenth streets, as originally laid out, has one owner, and the added width is in another, and the abutting owners have no interest in the fee of the street.

The same story exists between Atlantic and Flatbush avenues and between Atlantic and Pacific.

And on two parcels which we examined between Douglass and Degraw.

On Fourth avenue, between Eleventh and Twelfth streets for one-half of the block, and for the greater part of the distance between Union and President streets, we find conditions the same.

For all of the avenue between Sackett and Union streets and in one small parcel only, situated between Twelfth and Thirteenth streets, we do not find any interest of the abutting owners in the remaining fee of the street.

The parcels in question have been selected at random from among titles which we have previously examined, and assuming the law of average to prevail here, I would be bound to conclude that about one-tenth of the land in Fourth avenue is owned by the abutting owners. Where the abutting owner does not own the remaining fee in the street, it is hard for me to conclude that any Commission would award to an owner of a piece of land which the City and the public have a right to use in perpetuity as a street, any award which would be material.

I am led to conclude from previous experience that for a small amount of money the fee ownership of Fourth avenue for the entire length of the Subway could be purchased cheaper than through a Commission.

I enclose herewith our bill for services in this matter in accordance with your request

Yours very truly,
F. BAILEY, Vice-President.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 26, 1909.

BIRD S. COLER, Esq., *President, Borough of Brooklyn,* Borough Hall, Brooklyn, N. Y.:

MY DEAR SIR—I have your letter of October 25th, stating that you have prepared certain resolutions to be presented at the Board of Estimate at its next meeting, and asking for a statement as to the routes which this Commission has in mind for immediate construction and operation.

Under date of June 24, 1909, this Commission sent a communication to the Board of Estimate and Apportionment, in which is set forth the various ways in which rapid transit lines might be built, and requested an expression of opinion by the Board of Estimate as to the method which should be used with regard to certain routes enumerated in that letter. The Commission was, at that time, preparing plans and forms of contracts on the routes enumerated, and it has pressed the completion of such plans and forms of contracts since that time, in an endeavor to have them finished within a short time, in order that invitations to bidders may be advertised. The point of view of the Commission, relative to routes that should be begun at the earliest moment, has not changed since the letter of June 24th.

I enclose a copy of the letter to which I refer.

Yours very truly,
W. R. WILLCOX, Chairman.

Communication from the President of the Borough of Brooklyn, submitting form of resolution requesting the Corporation Counsel to move for the dismissal of all injunctions restraining the Board of Estimate and Apportionment from acting in the matter of the approval of certain contracts for subway construction.

Also resolution from Comptroller.

CITY OF NEW YORK—LAW DEPARTMENT,
OFFICE OF THE CORPORATION COUNSEL,
NEW YORK, October 27, 1909.

Board of Estimate and Apportionment:

GENTLEMEN—I beg to inform you of the recent decision of the Court of Appeals in regard to the Debt Limit question. Three suits were begun in which this question was raised, the plaintiffs in which were respectively Jefferson Levy, David Meyer and Fleischman Realty and Construction Company, the defendants being the Board of Estimate and Apportionment, various city officers and the Public Service Commission.

The Court of Appeals has affirmed the order appealed from and has answered certain questions that were raised. The remittitur has been duly filed and an order duly entered October 26, 1909, making the order and judgment of the Court of Appeals the order and judgment of the Supreme Court, and the injunction that was obtained in the Levy case has been vacated and set aside.

This litigation does not, therefore, any longer prevent the Board of Estimate and Apportionment from taking such action as it may deem proper.

Yours respectfully,
F. K. PENDLETON, Corporation Counsel.

CITY OF NEW YORK—LAW DEPARTMENT,
OFFICE OF THE CORPORATION COUNSEL,
NEW YORK, October 28, 1909.

Hon. GEORGE B. MCCLELLAN, *Mayor:*

SIR—I have been requested verbally to furnish you with a short statement of the facts and situation as to the proposed Fourth Avenue Subway.

This matter is expected to come before you at a meeting of the Board of Estimate and Apportionment, to be held on the 29th inst. The matter is No. 22 on the calendar of that date. It will not be necessary to repeat here the dates of the correspondence and the contracts and amounts involved, which are printed at length in the calendar.

Under date of May 26, 1908, the Public Service Commission for the First District transmitted to the Board of Estimate and Apportionment, for its consent, six proposed contracts, commonly spoken of as for the Fourth Avenue Subway. The form of the contracts is stated in this communication to be in accordance with the resolution adopted by the Board of Estimate and Apportionment on the 4th of June, 1907.

The Public Service Commission requests the Board of Estimate and Apportionment to consent to these contracts and to prescribe a limit to the amount of bonds available for the purposes of the contracts and asks that the Comptroller be authorized and directed to issue bonds of The City of New York for the purpose of providing the necessary means calling for various amounts under each contract, as set forth in the printed calendar.

No action was taken on these matters by the Board of Estimate and Apportionment heretofore because of the institution of certain litigation in which it was claimed that the City had exceeded its constitutional debt incurring capacity, and hence that it would be illegal to enter into the proposed contracts. In one of these actions, that of Jefferson Levy vs. Board of Estimate and Apportionment, an injunction was obtained, which was subsequently vacated. This litigation was carried to the Court of Appeals by the plaintiff, with the result that is well known. On the 26th inst., as the Board of Estimate and Apportionment has been informed, a stay pending appeal, which by the plaintiff had been obtained, was vacated, so that, so far as litigation is concerned, there is no reason why the Board of Estimate and Apportionment should not take such action as it may deem proper.

It is now proposed, as I understand it, to take up this matter at the meeting of the Board of Estimate and Apportionment on the 29th inst., and the questions to be presented are whether the Board of Estimate and Apportionment shall consent to the proposed contracts, shall prescribe a limit to the amount of Corporate Stock available for such contracts and shall authorize and direct the Comptroller to issue the same in the amounts for which the Public Service Commission made requisition.

The questions arise upon the request made by the Public Service Commission, under the provisions of section 37 of the Rapid Transit Act, which was originally chapter 4 of the Laws of 1891. Section 37, in its present form, as amended by chapter 498 of the Laws of 1909, is section 17. The section remains in substantially its previous form, with an important addition. This addition was evidently intended to give power to the Public Service Commission, with the approval of the Board of Estimate and Apportionment, to construct subways as local improvements, the expense of which, in whole or in part, could be assessed upon private property deemed benefited.

The first question that arises is whether this amendment imposes any limitation on the power of the Board to act. I do not think that it does, but that the Board, if it sees fit, can proceed under the first two subdivisions of the section which, as already stated, are in substantially the same shape as they were after the amendment of 1908, chapter 472, so that it is entirely competent for the Board of Estimate, if it sees fit, to approve the contracts and to authorize the issue of Corporate Stock which will become obligations of The City of New York.

The next question that arises is whether Corporate Stock shall be authorized to cover the whole estimated amount of the cost of construction, as stated in the contracts, or whether only the amount called for by requisition of the Public Service Commission shall be now authorized.

If the provisions of subdivision 1 of section 37 only were under consideration, it would seem clear that only the amount of the requisitions need be authorized; but we must consider also the provisions of subdivision 2. In that section is the following clause:

"No contract for construction of such road or roads shall be made unless and until such board of estimate and apportionment, or such other local authority shall have consented thereto and prescribed a limit to the amount of bonds available for the purposes of this section, which shall be sufficient to meet the requirements of such contract, in addition to all obligations theretofore incurred."

I think that three distinct acts of the Board of Estimate and Apportionment are contemplated:

The first consenting to the proposed contract;

The second limiting the amount of Corporate Stock available; and

The third authorizing the Comptroller to issue Corporate Stock to the amount of the requisition of the Public Service Commission.

I inclose a proposed form of resolution in one case; the five others in similar form will be handed to the Secretary of the Board of Estimate and Apportionment.

In this connection, I may refer to two opinions which I forwarded, one to the Board of Estimate and Apportionment, dated March 13, 1908 (Vol. 25 of Opin., p 329); the other to the Comptroller, dated June 11, 1908 (Vol. 26 of Opin., p. 57).

I should perhaps call your attention to a question which has been raised as to the effect of chapter 299 of the Laws of 1861.

It was held, in my opinion of April 16, 1909, to the President of the Board of Aldermen, in substance, that there existed a contract with the abutting property owners that there should not be on Fourth avenue a street railroad, and it was also held that the proposed subway, if constructed, would be a street railroad within the meaning of that act. It was accordingly held that it would be necessary to condemn the rights of the abutting owners under these statutory provisions.

The question to which I refer is whether it would be necessary to institute these condemnation proceedings before the letting of the contracts.

In my opinion it will not be possible to institute these proceedings until after the contracts have been entered into, and they are proceedings to be instituted by the Public Service Commission under the provisions of the Rapid Transit Act (see section 39 of the Rapid Transit Act).

Yours respectfully,

F. K. PENDLETON, Corporation Counsel.

The Secretary then presented six communications from the Public Service Commission for the First District, submitting forms of contracts for the construction of the Fourth Avenue Subway, Brooklyn, showing bidders to whom contracts have been awarded, requesting the consent thereto of the Board of Estimate, pursuant to section 37 of the Rapid Transit Act, as amended, and further requesting the Board to prescribe a limit to the amount of bonds available for the said purposes, and to authorize the issue of Corporate Stock, as follows:

Contract.	Contract Awarded.		Corporate Stock Requested.	
	For Railroad Construction.	For Pipe Gallery Construction.	For Railroad Construction.	For Pipe Gallery Construction.
No. 1. Manhattan Bridge Connection No. 1, Flatbush avenue extension, from Nassau street to Willoughby street; J. P. Graham, contractor..	$1,020,476 55	$101,374 55	$200,000 00	$20,000 00
No. 2. Section 9-C-1—Under Flatbush avenue extension and Fulton street, from Willoughby street to Ashland place; William Bradley, contractor.	3,436,019 00	58,695 00	500,000 00	10,000 00
No. 3. Sections 11-E-1 and 11-A-1—Under Ashland place and Fourth avenue, from Fulton street to Sackett street; William Bradley, contractor	3,392,091 50	208,135 00	500,000 00	30,000 00
No. 4. Section 11-A-2—Under Fourth avenue, from Sackett street to Tenth street; E. E. Smith Contracting Company, contractor	2,283,553 30	206,672 00	500,000 00	30,000 00
No. 5. Section 11-A-3—Under Fourth avenue, from Tenth street to Twenty-seventh street; Tidewater Building Company and Thomas B. Bryson, contractors	1,945,640 50	251,076 00	500,000 00	30,000 00
No. 6. Section 11-A-4—Under Fourth avenue, from Twenty-seventh street to Forty-third street; E. E. Smith Contracting Company, contractor..	2,808,982 80	173,665 00	500,000 00	30,000 00

SUMMARY.

Total contracts for railroad construction	$14,886,763 65
Total contracts for pipe gallery construction	999,617 55
	$15,886,381 20
Corporate Stock requested for railroad construction	$2,700,000 00
Corporate Stock requested for pipe gallery construction	150,000 00
	$2,850,000 00

(On June 5, 1908, the communications of the Public Service Commission as above were referred to the Comptroller.)

(On June 12, 1908, the Board was restrained by injunction from acting in this matter.)

Contract.	Contract Awarded.		Corporate Stock Requested.	
	For Railroad Construction.	For Pipe Gallery Construction.	For Railroad Construction.	For Pipe Gallery Construction.
No. 1—Manhattan Bridge Connection No. 1, Flatbush avenue extension, from Nassau street to Willoughby street—J. P. Graham, contractor	$1,020,476 55	$101,374 55	$200,000 00	$20,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, No. 154 NASSAU STREET,
NEW YORK, May 26, 1908.

To the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you for your consent as required by law a proposed contract, for the construction of Manhattan Bridge Connection No. 1, of the proposed Fourth Avenue Rapid Transit Railroad, which section extends under Flatbush avenue extension from Nassau street to Willoughby street, and also for the construction of the pipe galleries embraced within such section. The form of the proposed contract is for construction alone, in accordance with the resolution adopted by your Board on the 4th day of June, 1907.

The route, of which the portion of the railroad to be constructed under this contract forms a part, was adopted by the former Rapid Transit Board on the 18th day of April, 1907, and was thereafter consented to by the local authorities and by a majority in value of the owners of abutting property. The Public Service Commission for the First District pursuant to law prepared detailed plans and specifications for the construction of such Rapid Transit Railway and included in said plans provisions for galleries, ways, subways or tunnels, for gas or water pipes, electric wires and other subsurface structures and conductors proper to be placed underground (hereinafter in this communication referred to as pipe galleries) and determined to make a separate contract for the construction of a part of the said route under Flatbush avenue extension from Nassau street to Willoughby street. The form of the said contract as duly adopted by the Commission was submitted to the Corporation Counsel, and the Commission was advised by him in a communication, dated March 30, 1908, that it is correct in form, and such contract was approved by your honorable Board on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice a week for three successive weeks in four of the daily newspapers published in The City of New York and also continuously from day to day in the CITY RECORD, which notices stated that said proposals would be opened at the office of the Commission on Friday, the 8th day of May, 1908, at 12 o'clock noon. At the said time and place the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
James P. Graham	$1,020,476 55	$101,374 55	$1,121,851 10
Rodgers & Haggerty	1,374,000 00	118,000 00	1,492,000 00
Borough Construction Company and Charles Cranford	1,464,705 12	150,015 36	1,614,720 48
S. Pearson & Son (Inc.)	1,476,459 00	162,763 00	1,639,222 00
The Degnon Contracting Company	1,506,190 00	136,590 00	1,642,580 00
Millard Construction Company	1,517,919 72	153,305 00	1,671,224 72
Gore Engineering and Contracting Company	1,685,427 80	232,572 00	1,917,999 80
William Bradley	1,690,903 00	189,150 00	1,880,053 00
Cranford Company	1,941,978 00	200,864 00	2,142,842 00

An informal proposal was also received from Westinghouse, Church, Kerr & Co., which was based upon what is known as the master and servant type of contract, and which differed so radically from the proposals requested by the invitation to contractors that the Commission was advised by its counsel that such proposal could not be considered.

The Commission having duly considered the said proposals did accept the proposal of James P. Graham, who has had some experience in sewer construction in the Boroughs of Brooklyn and Queens, both for railroad construction and for pipe galleries, and accordingly awarded the contract for the construction of the same to the said James P. Graham, subject to your consent, as required by law. A copy of said contract as so adopted and awarded is herewith transmitted.

The Commission therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, requests your Honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and requests you to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and the Commission does hereby make request for the authorization of Corporate Stock to the amount of two hundred thousand dollars ($200,000) for railroad construction and twenty thousand dollars ($20,000) for pipe gallery construction, those being the amounts which the Commission deems necessary for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereto affixed and attested by its Secretary, this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
By W. R. WILLCOX, Chairman.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission has, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accepted the proposal of James P. Graham for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets, in the Borough of Brooklyn, known as the Manhattan Bridge Connection No. 1, which extends under Flatbush Avenue Extension from Nassau street to Willoughby street, for the sum of one million twenty thousand four hundred and seventy-six dollars and fifty-five cents ($1.020,476.55), and did also accept the proposal of the said James P. Graham for the construction of pipe galleries embraced within the said section, for the sum of one hundred and one thousand three hundred and seventy-four dollars and fifty-five cents ($101,374.55); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of The City of New York to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of Corporate Stock to the amount of two hundred thousand dollars ($200,000) for railroad construction and twenty thousand dollars ($20,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on , 1909, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof I have hereunto subscribed my hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

MANHATTAN BRIDGE No. 1.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Manhattan Bridge Connection, Brooklyn (Flatbush Avenue Extension, Nassau Street to Willoughby Street).

INVITATION TO CONTRACTORS.

(Flatbush Avenue Extension, Nassau Street to Willoughby Street, Manhattan Bridge, No. 1.)

The City of New York, acting by the Public Service Commission for the First District, by this advertisement invites proposals to construct that part of the proposed Fourth Avenue Subway which begins at the northerly side of Nassau street and runs thence under said Flatbush avenue extension to a point about twenty feet north of the centre line of Willoughby street.

The general plan of construction calls for a four-track subsurface railroad, but the contractor will not be required under the contract proposed to provide or lay tracks, ties or ballast. A station between Tillary street and Johnson street will be constructed; and suitable cross-overs, turn-outs and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The

roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the station are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets, or on the sidewalks adjacent to private property, as indicated on the plans.

The manner of construction shall be by open excavation unless otherwise provided in the contract or directed by the Commission; such portions of the street, however, where the work may not be completed and the backfill is not placed at the expiration of fifteen months from the time of executing the contract, must be substantially boarded over to permit freedom of traffic, if so ordered by the Commission

In the detailed plans for construction, provisions for pipe galleries along the line of the tunnel are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and station to be built under this contract and note the present conditions along the line of the proposed railroad. The buildings standing within the lines of the said Flatbush avenue extension are being, or are to be, demolished and the materials removed by other contractors.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this Invitation.

Partial payments to the contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids or proposals will be received at the said office of the Commission, at No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at 12 o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission to enable it to determine upon what basis the proposal is made and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done upon the basis of such quantities and unit values contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment; and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract the contractor will be required to furnish security to the City by giving bond in the penalty of one hundred and fifty thousand dollars. At the option of the successful bidder, cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which Savings Banks may invest their funds and must be approved by the Commission. The contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, 10 per cent. of each amount certified from time to time to be due to the contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, substitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission; but such substitution must be made within five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of failure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another contract with such, if any, of the original bidders as, in the opinion of the Commission, it will be to the best interest of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Rapid Transit Railroad—Flatbush Avenue Extension, Nassau Street to Willoughby Street," and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a certified check drawn upon a National or State Bank or Trust Company within The City of New York and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of twelve thousand five hundred dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this invitation to contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT, MANHATTAN BRIDGE, No. 1.

For the Construction of a Part of Proposed Rapid Transit Railroad, Manhattan Bridge Connection (Flatbush Avenue Extension—Nassau Street to Willoughby Street).

Approved as to form this day of , 1908.

.....

Corporation Counsel of The City of New York.

MANHATTAN BRIDGE CONNECTION.

CONTRACT, MANHATTAN BRIDGE No. 1.

Agreement, made this day of 190 , between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and James P. Graham of The City of New York, hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City, by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, and of chapter 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York, and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for himself, his executors, administrators and assigns, agree each with the other as follows:

I—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part hereinafter described of a rapid transit railway with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on April 18, 1907, and approved by the Board of Estimate and Apportionment of The City of New York on April 26, 1907, and by the Mayor on May 1, 1907, and thereafter consented to by the owners of more than one-half in value of the property bounded on the part of the street or highway upon which it is proposed to construct the said railroad.

The part to be constructed under this contract is described as follows, viz.:

A four-track underground railroad, the centre line of which shall begin at the intersection of the centre line of Flatbush avenue extension with the northerly line of Nassau street, and shall run thence southeasterly along and under the centre line of Flatbush avenue extension to a point about twenty feet north of the centre line of Willoughby street.

The precise location of the tracks, and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned. A station is to be constructed under this contract, as a part of the railroad, between Tillary street and Johnson street. The pipe galleries which are to be constructed, as an independent item of the work, are also described in the said specifications, drawings and plans.

Statutes Incorporated Herein.

The Flatbush avenue extension above referred to has not yet been opened for traffic. The City has, however, taken title to the land, and the buildings standing within the lines of the said new street are now being or are to be demolished, and the materials thereof removed by other contractors.

This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenienc , and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any other act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the party of the second part to this contract, and his executors, administrators and assigns and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he," shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "its," "her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891, as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May Be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Sub-Contractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a sub-contractor, the provisions of this contract shall apply to such sub-contractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the sub-contractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the sub-contractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the sub-contractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Sub-Contractors.

The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of such sub-contractor, the portion of the work which such sub-contractor is to do or the materials which such sub-contractor is to furnish, the place of business of such sub-contractor, and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any sub-contract to a person, firm or corporation disapproved of by the Commission.

II.—Work to Be Done, Price, etc.

Work to Be Done.

The Contractor shall, at his own cost and expense, and in strict conformity with the specifications, hereinafter contained and called the Specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the specifications or not, furnish all the materials and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the railroad, including therein the station, sidetracks, switches, cross-overs, and all other appurtenances as hereinafter specified, but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

Construction Includes Sewer and Other Incidentals.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults and other surface, subsurface and overhead structures together with their necessary connections, as the same may be met with along the route; to rebuild portions of sewers at and near the intersections of cross streets; to make or remake the necessary manholes, catchbasins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Price for Railroad Construction.

The City shall pay, and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of one million twenty thousand four hundred and seventy-six dollars and fifty-five cents ($1,020,476.55), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries to be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned, provisions for pipe galleries. The Contractor in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries with all appurtenances thereof.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of one hundred and one thousand three hundred and seventy-four dollars and fifty-five cents ($101,374.55), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans; and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of This Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of pipe galleries.

Right of Commission to Amplify Plans, to Require Extra Work, Etc.

The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right by notice to the Contractor to require additional work to be done or additional materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; provided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Extra Work, Etc.

If additional work or materials shall be so required, then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then the reasonable deduction shall be made in the manner hereinafter provided from the amount to be paid to the Contractor for construction.

The location of the station and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms a part, will constitute a great public work. All parts of the structure where exposed to public sight are, therefore, designed, and shall be constructed, with a view to the beauty of their appearance, as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be a deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, Etc., to be Used.

The Contractor is to furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as hereinbefore provided.

Contractor Has Examined Location, Plans, Etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer, or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the Assistants and Superintendents under the Engineer, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any Superintendent, Assistant or other person bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any Engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additional specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the Commission or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal From Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinbefore provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to

work done or materials supplied shall be binding upon the City unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written notice addressed, if the Commission be the appellant, to the Contractor, or, if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal, the party receiving the same shall appoint an arbitrator, and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate an arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon each appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position, within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer, the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be no standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served the Commission and the Contractor shall select a disinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said Committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator, his place shall be filled in the same manner as that hereinbefore provided in the case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these periods last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor, and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance, appoint counsel to represent it or him, and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision, the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both.

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the completion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor, or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part hereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any such case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly Be Had.

It is expressly agreed, however, that if in any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way responsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract, any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action; and the requirement that there shall be an adequate and comfortable station. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

The plans referred to in the specifications hereinafter contained are thirty (30) in number, bear date the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission and are designated as follows:

Two (2) drawings marked Route Manhattan Bridge Extension 1, Contract Drawing Nos. A-1 and A-2; three (3) drawings marked Contract Drawing Nos. B-101, B-104 and B-105; two (2) drawings marked Route M. B. Ex.-1, Contract Drawing Nos. B-1 and B-2; fifteen (15) drawings marked Contract Drawing Nos. C-50 to C-63, inclusive, and C-120; eight (8) drawings marked Contract Drawing Nos. C-200 to C-205, both inclusive, and C-207 and C-208.

Plans and Contract Drawings.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure; and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal as the contract drawings, but designated as supplementary drawings, which are signed by the Engineer and marked as follows:

One (1) drawing marked "Route Manhattan Bridge Connection 1, and Nos. 9-C-1, 11-E-1 and 11-A-1, Supplementary Drawing No. D-99;" four (4) drawings marked "Route Manhattan Bridge Extension 1, Supplementary Drawing Nos. D-109 to D-112, both inclusive."

These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The supplementary drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness; and the Contractor may, at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy, or error, but is to take every necessary or proper precaution to overcome the unforseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications Not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except that, upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

These specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps.
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.
(134) 21. Station.
(149) 22. General Clauses.

1—Description of the Work.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the Rapid Transit Railroad known as Manhattan Bridge Route, which is described in the routes and general plan adopted by the Board of Rapid Transit Railroad Commissioners on the 18th day of April, 1907.

It is to be a four-track underground railroad or subway (but this contract does not require the Contractor to provide or lay tracks, ties or ballast), the centre line of which will begin at the intersection of the centre line of Flatbush avenue extension with the northerly line of Nassau street; and shall run thence southeasterly along and under the centre line of Flatbush avenue extension to a point about twenty feet north of the centre line of Willoughby street. At the northerly line of Nassau street the tracks will be in two separate tunnels or subways about 120 feet apart, so arranged as to make convenient connections with the tracks to cross Manhattan Bridge. There

will be two tracks in each tunnel, which shall run southeasterly along and under Flatbush avenue extension, and shall converge and join in a four-track structure with the four tracks on the same level at a point about 300 feet from the northerly line of Nassau street.

Between the centre line of Tillary street and the centre line of Willoughby street there will be a fifth track, which will be depressed as indicated on the plans.

Station to be Constructed.

A station is to be constructed between Tillary street and Johnson street and also suitable turnouts and crossovers, all as indicated on the plans.

The above description of the railroad to be constructed under this contract is in general language, but the location of the various tracks, junctions, grades, etc., are set forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself, it will be necessary to construct or reconstruct certain sewers, together with house and other sewer connections, and to adjust, readjust and maintain railways, pipes, electric subways, vaults, poles and wires and other surface, subsurface and overhead structures, and to relay the street pavement, wherever pavements exist at the time of executing this contract, both on streets occupied by, and on streets other than those occupied by, the route of the railroad.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for the installation of the necessary ventilating devices shall be built at the sides of the railroad and in connection therewith. These chambers shall be generally of the form and dimensions as indicated on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from these points, suitable air-ways, ducts or flues shall be constructed. Drainage shall be provided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the station, for the purpose of admitting air to the railroad.

The chambers will be built between every two stations, one on each side of the railroad, generally about midway between the stations. In streets having parkways the blow holes will be required in each block.

The devices for ventilation to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad, and are not to be furnished under this contract.

Emergency Exits.

The chambers shall be provided with suitable doors or openings from the railroad and with ladders reaching to the street for use as exits in cases of emergency.

Pipe Galleries.

Pipe galleries or ways will also be constructed over, or on one or both sides of, the railroad as provided in this contract or indicated on the plans.

Pipes, etc., to be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other subsurface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross-streets and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes.

Sewers Not in Galleries.

Sewers will not be placed in the galleries; but, if necessary, sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts to receive electric wires or cables will be placed generally as indicated on the contract drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in accordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc., and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections With Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part; and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed unless local conditions should develop during construction suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—MANNER OF PROSECUTION.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to be Filed With Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements, the Contractor shall conduct his work in compliance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy, with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work, street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic; and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Excavation, Where to be Covered.

The street surface at and near the intersections of all cross streets shall be kept substantially boarded over wherever and whenever excavation is in progress; and the work of covering the street surface must be prosecuted as much as possible during the night or at times of least traffic.

Open Trench Excavation, Where Permitted.

On Flatbush avenue extension within the limits of the property recently acquired by the City for the said street, the Contractor will be permitted to prosecute his work in open trench excavation; provided, however, that all portions of the street where the work is not completed and the backfill is not placed at the expiration of fifteen months from the date of delivery of this contract, must be substantially boarded over so as to permit traffic, if so ordered by the Commission.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel on all streets crossing the line of the work.

Access to Buildings, etc.

No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Vaults Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

This Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion on the several parts of the route it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings, or bridging, in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously and only at night if so directed by the Engineer and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate,

but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of his order or within a period of time to be therein stated.

Removal of Buildings, etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings

3—Excavation.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required, hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete or masonry, also structural and other material to be used in the work, may be stored within the limits of the property recently acquired by the City for the extension of Flatbush avenue; but the disposition of such materials shall be at all times subject to the approval of the Engineer.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that, with the permission of the Commission, may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of as the Contractor may desire; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary tramways, to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Carts to Be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides to Be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting wherever possible and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work; if, however, rock should be found or boulders, or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of The City of New York relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more of masonry encountered within the line for excavation will be measured as rock excavation.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shal be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

4—Backfilling.

Quality of Material. How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other subsurface structure.

Flatbush Avenue Extension.

At such places as in the judgment of the Engineer backfilling cannot be effectively done as provided above, the material must be placed and compacted by flooding with water.

On those portions of the work which are included within the limits of the property recently acquired by the City for the extension of Flatbush avenue the backfilling is to be brought up to the grades of the enclosing streets and to a uniform grade between these streets; at the surface and extending down from the surface to the old basement or cellar floors of the buildings removed or partly removed, unless otherwise permitted by the Engineer, it is to extend not less than six (6) feet on each side of the structure beyond the limiting line thereof, and wherever necessary such means as may be approved by the Engineer shall be adopted by the Contractor to support the backfilling and prevent its encroachment on abutting property. In the event, however, of new buildings, or vault or area walls being erected by abutting owners prior to the completion of the excavation by the Contractor, he shall backfill to the grade of the regular street surface to and against these walls.

Subsurface Structures. Frozen Material Not Permitted.

Whenever pipes, sewers, or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled.

5—Piling and Timbering.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations, ordered by the Commission and not shown on the plans, shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging or other temporary purposes, shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight, and free from all shakes, and large loose knots. All sheeting and timber used temporarily shal be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—Masonry.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

7—CEMENT.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used, and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand to be Approved.

Before any cement is used, the brand and name of the maker must receive the approval of the Engineer, and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where manufactured, or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which, by their records, show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve, and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds, and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area, of not less than one hundred and eighty (180) pounds; and at the end of twenty-eight (28) days one (1) day in air and twenty-seven days in water, of not less than two hundred and seventy-five pounds.

Chemical Analysis.

Chemical analysis will be made from time to time, and cement furnished must show a reasonably uniform composition, and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid ($S O_3$) nor more than 4 per cent. of magnesia (Mg O).

Soundness.

Tests for soundness will be made as follows:

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre, and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy (70) degrees Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks and one shall be exposed to an atmosphere of steam above boiling water in a loosely closed vessel for five (5) hours. These pats shall remain hard, and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent., from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store, at some convenient point in the vicinity of the work, or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection, or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—MORTAR.

Cement and Sand Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations; and for other classes of work, as directed by the Engineer.

9—CONCRETE.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound screened gravel or sound hard broken limestone trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inches in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼-inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement, sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone when machine mixed; when mixed by hand, one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until throughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work, and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete if so ordered.

Joints Cleaned.

In all cases of joints of old with new work the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight, a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed, or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms, if made of wood, shall be made of boards with close-fitted matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indidate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Surfaces Not to be Painted.

The exposed faces of the concrete, excepting within station limits, will not be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—BRICK MASONRY.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They

shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eights (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brick work, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves or other similar places, special bricks of proper shape shall be furneshed and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—Stone Masonry.

Footings for Columns.

In general, columns will be set on a concrete base; in special cases, however, footing stones may be required.

Footing Stones to be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top where the column base plate is to rest shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case the Contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case, during the progress of the work, any rubble or other masonry of a different class from that specified above, shall become necessary, and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class, and according to the direction of the Engineer.

12—Waterproofing.

In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than four inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of piles of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal tar or natural asphalt as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit, and melt at 100 degrees Fahrenheit, being a grade in which distillate oils, distilled therefrom shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt, of equal quality, and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in Acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used, together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor to be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—Drains and Pumps.

Railroad to be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with sub-drains lying beneath the railroad and draining into the sewers.

Sub-drains

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the sub-drains or the floor of the railroad. Such sump must be watertight, with a capacity of not less than eight hundred (800) gallons.

14—Steel and Iron.

Open Hearth Process.

Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000± (Min.)
Yield point	55% Ult.	55% Ult.	35000± (Min.)
Elongation	1500000	1500000	20% in 2"
	Ult. Str.	Ult. Str.	
Fracture	Silky.	Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120° (d.=3+.)

The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the Inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (3/8) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

WROUGHT IRON.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a yield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern. Tests.

All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1-10) of an inch before rupture.

WORKMANSHIP.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed one-sixteenth (1-16) of an inch the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be sub-punched and reamed, a punch of diameter three-sixteenths (3-16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1-16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

All material over seven-eighths (7/8) of an inch thick shall be drilled from the solid. Material over five-eighths (5/8) of an inch and not exceeding seven-eighths (7/8) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eights (5/8) of an inch in thickness, to be used in main members, shall be planed at least one-eighth (1/8) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes and shall be machine driven wherever possible. They shall have full concentric heads, or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced, perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (1/8) of an inch of flange angles.

Rollers and Bed-plates.

Rollers shall be turned and roller beds and bed-plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material, and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale, and receive one coat of approved paint as herein specified before leaving the shops. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead ($Pb_3 O_4$). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk belting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahrenheit on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 6 gallons of boiled linseed oil, and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed, but not painted, before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to Be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations this shall be black carbon paint, but for the stations, and for 30 feet each way therefrom, see specifications for painting under the heading of the stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material, or adulterant, shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—Ducts.

Quality. Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally or from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To Be Rodded.

After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the duct which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor.

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms, additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—Sewers.

In Accordance with Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grade, at the depths, with the connections, and in the manner, as called for by these specifications and as shown on the drawings.

Change of Location.

If during the progress of the work it is found, in the opinion of the Engineer, impracticable to construct according to the contract drawings any sewers, manholes, or other appurtenances, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of Departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than four feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer, and for the distance specified.

The excavation of trenches shall be fully completed at least twenty feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting, the exposed end of the sewer shall, in all cases, be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations To Be Made Good.

Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and at no other time shall such construction work be done.

Trenches To Be Kept Free from Water.

The trenches shall be kept entirely free from water while the foundation and the masonry are being consructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunnelling.

When tunnelling for sewers shall be deemed advisable, it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway To Be Kept Open.

At all times the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway To Be Kept Clear.

Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which, in the judgmetn of the Engineer, are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers To Be Maintained.

The Contractor shall provide for the flow of all sewers, drains and water-courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer, which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers, where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the

street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying watermains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers—Form, Dimensions and Materials.

Where indicated on the plan, or, if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the Contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used If Ordered.

Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms of invert centres, which are to be removed when the concrete has become sufficiently set.

Invert to be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, Etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material, and shall be secured, as elsewhere provided in these specifications.

Defective Work.

If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, Etc.

In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers, Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than 5/8 of an inch thick; 8-inch pipes shall be not less than 3/4 of an inch thick; 10-inch pipes shall be not less than 7/8 of an inch thick; 12-inch pipes shall be not less than one inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than two inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than 1½ inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than 6 inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be 4 inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than 15 feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; each shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains, and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work To Be Protected.

All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least two and one-half feet of earth over them.

Pipes To Be Kept Clean.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes To Be Protected.

The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by special bluestone eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than twelve inches below the flow-line grade of the sewer, except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required, it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds;

Street manhole cover, 135 to 150 pounds;

Sidewalk manhole head, 300 to 310 pounds;

Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes To Be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand of so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan and free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings or other details to be furnished by the Contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Backfilling.

The backfilling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer, the regrading and temporary paving over the same shall be done and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench, as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, etc., to be Kept Clean.

During the progress of the work and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All the pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

48-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent. for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such moulding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air-furnace) shall be pig iron, made without any admixture of cinder iron or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles and other defects and imperfections.

Castings to be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting to be dipped after rust has set in.

Pitch.

The coal-tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To Be Inspected Before Dipping.

No casting shall be dipped until the authorized Inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test will be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed, and the height distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36 inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24 inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20 inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick, with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shal be equalized so as to give as nearly as possible an equal space for the packing. Ths space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a water-tight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption to be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop cocks, boxes, branches, curved pipe and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—PAVING.

Pavement to be Restored.

As soon as the work in any open excavation or trench made under this contract within a street shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as that existing previous to the commencement of construction.

There will be no paving laid under this contract within the limits of the property recently acquired by the City for the extension of Flatbush avenue, but the surface is to be brought to a uniform grade as hereinbefore provided in these specifications under the heading "4. Backfilling."

Other Pavements May Be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement; or to make an arangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the municipal officer in charge of street paving, or any property owner, desires to lay a pavement in any street, or a sidewalk along any street, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed but not relaid, and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—MAINTENANCE OF STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Surface and Subsurface Structures to be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains and all other surface or subsurface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or subsurface structure as mentioned above, or sidewalk, curb, area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice to be Given.

Notice is to be given by the Contractor to all companies and the proper city officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the rearrangement of subsurface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May Do Work.

Whenever it becomes necessary to cut, move, change or reconstruct any such structures as named above, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor; such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and one-half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction or alteration if performed by the City or owners shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time as shall be adjudged by the Commission, may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures as above provided, or in case they shall consider it necessary or desirable to make any further alterations in or do any work to or in connection with surface or subsurface structures owned by them or it at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—STATIONS.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the station between Tillary street and Johnson street.

Station Plans Furnished.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail, from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar, as far as possible, to the general details of the stations, as indicated on the above-mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement, plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits, and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways shall be "Pink Georgia," or its equal.

All marble lintels shall be "Green Veined Vermont" or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the wainscot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enamel or face bricks shall be of an approved brick of the best qualtiy. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices, all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level when acting as retaining walls shall be built of brick or concrete with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the bottom by a pipe leading to the drains. Where directed, openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2⅜ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick-facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the station sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways, entrances through private property and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete, or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors, and laid or set, as the Engineer may direct. In the designs of the stations all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the station must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning, and to permit if desired a thorough washing of all parts of the station and its approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the concrete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.
On terra cotta blocks, one (1) brown coat and two (2) finish coats.
On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles shall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish.

The floors of the station platforms, closets, toilet rooms, mezzanines and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement, and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or hereinafter specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth unifrom hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalks a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundations. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landings shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the station. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered through private property.

Connecting Passageways.

The platforms of the station shall be connected with each other by two (2) underground passageways, to enable passengers to have access to both platforms from either side of the street.

Ticket Booths, Doors and News Stands.

The ticket booths, doors and news stands shall be constructed of metal covered wood with moldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass, plain or frosted, as indicated, and shall be enclosed with bronze grille. Plate glass coin shelves shall be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and news stands, shall be of solid bronze metal without lacquer, and of weight, quality and design as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Marquise.

Over each entrance a marquise of cast iron with glass roof is to be provided, extending from building to curb, or suspended from building, depending upon local conditions.

Sanitary Arrangements.

Station shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin, and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast-iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract.) All soil piping in connection therewith shall be provided as a part of the station construction and from thence into the sewer. Between the wall spaces and the sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass as approved by the Engineer. All work must conform with the City Building and Health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast-iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, marquise, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one sixteen-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Ventilation.

Ventilating openings shall be constructed in the roofs of the stations. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms; and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths and news stands.

Pipes, Conduits, Etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the Subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the Subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22—GENERAL CLAUSES.

Placing and Protection.

It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work to be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all

refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions; orders will be given by the Engineer to, and shall be received and promptly obeyed by the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper Inspector.

In all work of whatever kind which, during its progress and before its final acceptance, shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commenceing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., to Be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the Rapid Transit Railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and municipal regulations regarding the transportation in and around the City and harbor of materials used in, or in connection with, the work.

Condemned Materials to Be Removed.

If the work, or any part thereof, or any material found or brought on the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuild or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is in his opinion incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

V.—Security to Be Furnished by Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in due form executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of one hundred and fifty thousand dollars ($150,000). In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within thirty days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, together with the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule, then, within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

When Contractor May Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may from time to time substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another Contractor or Contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten days after notice from the Commission so to do shall (unless the time be extended by the Commission) by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission, restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss caused to others by the negligence, fault, or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract, and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balance, during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments, How to be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been deliverd in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for ninety per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be ninety per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor without any deduction except as herein otherwise provided. In case the Contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determinations of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And, if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of construction under this contract, the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller, the City shall pay to the Contractor in cash the amount remaining after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this Contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the City or of any person relating to

or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claim for Damage. Statements of Damage to be Filed with Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the 15th day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence that Labor and Materials Have Been Paid for.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after, the final completion of the works, that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Contractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition, until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII. Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving no Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in connection with the work as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any subcontractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any sub-contractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any subcontractor or other person employed on the works.

Money Due the Contractor May be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any sub-contractor or other person employed on the work, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a Court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained, and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or structures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any subcontractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor or of any subcontractor or of any other person in the course of any employment under the Contractor or any subcontractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be prima facie evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract, by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor, by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Works During Construction.

All risk of loss or damage to the works or to the materials therefor prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference by Injunctions, to Acquire Real Estate, etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contractor shall enforce his rights against the City under this provision solely by claim for money, and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense, or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counterclaim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a Court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transportation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, etc.

Commencement and Completion of Work.

Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price To Be Reduced for Delay.

In event of delay in completion of the works beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due), there shall be deducted and retained by the City as liquidatd damages for such delay (and not as a penalty) one per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion To Be Extended in Case of Dclay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above,

which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct, with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as such completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceeding involving this clause of the contract, the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract Not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall not be reasonably probable that the works will be completed within the period above limited, then and in any such case the Commission upon notice to the Contractor of not less than thirty days may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City by the Commission in addition to every, or in substitution for any other, remedy which it may have by law or hereunder may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk or otherwise as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to Contractors, upon such terms as the Commission may deem proper; the same to provide among other things that the new Contractor shall allow for so much of construction as has been already completed, a reasonable amount to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Contractor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upon the Bond, or with respect to the deposits of cash or securities made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—Miscellaneous Provisions.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and, if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provisions in Case Commission Cease.

In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of section 13 of the Labor Law it is further provided that if the provisions of the said section are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect, and shall upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has hereunto set his hand and seal the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By.....Chairman.

Attest:

.....Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came , to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared , to me known, who, being by me first duly sworn, did depose and say: That he resided in , in the State of ; that he is , of the , the corporation described in and which executed the foregoing instrument: that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

Contractor's Bond.

(Flatbush Avenue Extension, Nassau Street to Willoughby Street.)
(Manhattan Bridge No. 1.)

Know all men by these presents, That , of , hereinafter called the Contractor, and and , hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City, in the penal sum of one hundred and fifty thousand dollars ($150,000) lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves, and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said one hundred and fifty thousand dollars ($150,000), and each of the said Sureties to be so held and bound only for a portion of said penal sum, as follows:

The said for the sum of dollars ($);
the said for the sum of dollars ($);
the said for the sum of dollars ($);
the said for the sum of dollars ($).

In witness whereof, the Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these presents to be attested by the proper officers of each of them which is a corporation, this day of , 1908.

Whereas, The City, by the Public Service Commission for the First District (hereinafter called the Commission), is about to enter into a contract with the Contractor, bearing even date herewith, for the construction of that portion of a rapid transit railroad (including pipe galleries), known as the Manhattan Bridge Connection in the Flatbush Avenue Extension, and extending from Nassau street to Willoughby street, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof.

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defence upon this bond; that the sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

Contractor's Proposal.

(Manhattan Bridge Connection No. 1.)

(Flatbush Avenue Extension, Nassau Street to Willoughby Street.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors.
Copy of Form of Contract.
Copy of Form of Bond.
Schedule of Securities, filled up only if the bidder desires to deposit securities in lieu of cash.

To the Public Service Commission for the First District:

1. The undersigned* do hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose, according to the terms thereof, to enter into a contract with The City of New York in the form therein referred to and to perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A., B., C., D., etc." (giving the names of all the partners).

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad; but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification, as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit values thereof, and are submitted in accordance with the invitation to contractors. In submitting this estimate, it is understood that the acceptance of this proposal by the Commission imposes upon it no obligation to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

RAILROAD CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per square yard	.....	.....	.....
With treated fabric, 3-ply, per square yard	.....	.....	.....
With treated fabric, 4-ply, per square yard	.....	.....	.....
With treated fabric, 5-ply, per square yard	.....	.....	.....
With treated fabric, 6-ply, per square yard	.....	.....	.....
Brick laid in asphalt mastic, per cubic yard	.....	.....	.....
†Drains—			
15-inch vitrified pipe, per linear foot	.....	.....	.....
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch or 3-inch vitrified pipe, per linear foot	.....	.....	.....
16-inch cast iron pipe, per linear foot	.....	.....	.....
12-inch cast iron pipe, per linear foot	.....	.....	.....
10-inch cast iron pipe, per linear foot	.....	.....	.....
8-inch cast iron pipe, per linear foot	.....	.....	.....
6-inch cast iron pipe, per linear foot	.....	.....	.....
4-inch cast iron pipe, per linear foot	.....	.....	.....
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds	.....	.....	.....
Steel beams, per ton of 2,000 pounds	.....	.....	.....
Cast steel, per ton of 2,000 pounds	.....	.....	.....
Cast iron, per ton of 2,000 pounds	.....	.....	.....
Tunnel ducts	.....	.....	.....
Vault lights, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Wire mesh (expanded metal), per square yard	.....	.....	.....
Gas pipe handrail, per linear foot	.....	.....	.....
Total			$.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.
† Includes all specials and fittings.

Sewers Along Line and Off Line.

*Sewers.	Along Line. Lin. Ft.	Price.	Amount.	Off Line. Lin. Ft.	Price.	Amount.
6-inch cast-iron pipe	.....	$.....	$.....	.....	$.....	$.....
8-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
10 inch cast-iron pipe	.....	.....	.....	.....	.....	.....
12-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
14-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
16 inch cast-iron pipe	.....	.....	.....	.....	.....	.....
18-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
20-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
24-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
30-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
36-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
42-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
48-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
54-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
6-inch vitrified pipe	.....	.....	.....	.....	.....	.....
8-inch vitrified pipe	.....	.....	.....	.....	.....	.....
12-inch vitrified pipe	.....	.....	.....	.....	.....	.....
15-inch vitrified pipe	.....	.....	.....	.....	.....	.....
18-inch vitrified pipe	.....	.....	.....	.....	.....	.....
24 inch vitrified pipe	.....	.....	.....	.....	.....	.....
Egg-shaped Brick or Concrete—						
3 feet by 2 feet	.....	.....	.....	.....	.....	.....
3 feet 6 inches by 2 feet 4 inches.	.....	.....	.....	.....	.....	.....
4 feet by 2 feet 8 inches	.....	.....	.....	.....	.....	.....
4 feet by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches by 2 feet 10 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 9 inches by 3 feet 2 inches.	.....	.....	.....	.....	.....	.....
Circular—						
3 feet 9 inches	.....	.....	.....	.....	.....	.....
4 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches	.....	.....	.....	.....	.....	.....
4 feet 9 inches	.....	.....	.....	.....	.....	.....
5 feet	.....	.....	.....	.....	.....	.....
5 feet 3 inches	.....	.....	.....	.....	.....	.....
5 feet 6 inches	.....	.....	.....	.....	.....	.....
6 feet	.....	.....	.....	.....	.....	.....
6 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 6 inches	.....	.....	.....	.....	.....	.....
8 feet	.....	.....	.....	.....	.....	.....
9 feet	.....	.....	.....	.....	.....	.....
9 feet 3 inches	.....	.....	.....	.....	.....	.....
9 feet 6 inches	.....	.....	.....	.....	.....	.....
†Special Forms—						
6 feet by 8 feet 6 inches	.....	.....	.....	.....	.....	.....
7 feet by 13 feet 8 inches	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.
† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe. Lin. Ft.	Price.	Amount.	Gas Pipe. Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20 inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot	.....	$.....	$.....
Street railway track (single track), per linear foot	.....	.....	.....
Elevated railway columns, each	.....	.....	.....
Total			$.....

Stations.

Classified Items.	Quantity.	Price.	Amount
Tile—			
Straight tile, per square foot	.....	$.....	$.....
Curved tile, per square foot	.....	.....	.....
Ceramic tile, per square foot	.....	.....	.....
Ceramic tile (special pieces), each (Scratch coat to be included in the above items.)	.....	.....	.....
Marble—			
Platform wainscot, per square foot	.....	.....	.....
Lintels, Type "A," each	.....	.....	.....
Lintels, Type "B," each	.....	.....	.....
Lintels, toilet, each	.....	.....	.....
Lintels, special, each	.....	.....	.....
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station	.....	.....	.....
Back pressure valves, check and gate, each	.....	.....	.....
Toilet fixtures, complete, each	.....	.....	.....
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot	.....	.....	.....
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station	.....	.....	.....
Catch basins, including traps, pipes and sewer connections for same, each	.....	.....	.....
Fire service connections, including necessary pipe and valves, each	.....	.....	.....
Wall drains, complete, each	.....	.....	.....
Plastering—			
Flat suspended ceiling, complete, per square yard	.....	.....	.....
Arched suspended ceiling, complete, per square yard	.....	.....	.....
First, second and finish coats on brick or tile, per square yard	.....	.....	.....
Second and finish coats on concrete, per square yard	.....	.....	.....
Portland cement finish on concrete, per square yard	.....	.....	.....
Wire lath and steel furring, exclusive of plaster, per square yard	.....	.....	.....

Classified Items.	Quantity.	Price.	Amount.
Woodwork—			
Ticket booths, Type "A," each	.....	.....	.....
Ticket booths, Type "B," each	.....	.....	.....
Ticket booths, Type "C," each	.....	.....	.....
Ticket booths, Type "D," each	.....	.....	.....
Ticket booths, Type "F," each	.....	.....	.....
Ticket booths, special, each	.....	.....	.....
News stands, each	.....	.....	.....
Fixtures for masonry booths, each	.....	.....	.....
Fixtures for news stands, each	.....	.....	.....
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each	.....	.....	.....
Doors, Type "B," including hardware, each	.....	.....	.....
Doors, Type "C," including hardware, each	.....	.....	.....
Doors, Type "D," including hardware, each	.....	.....	.....
Doors, Type "E," including hardware, each	.....	.....	.....
Doors, special, including hardware, each	.....	.....	.....
Trim and doors for panel and switchboards, each	.....	.....	.....
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread	.....	.....	.....
Supported stairways, including safety treads, per linear foot tread	.....	.....	.....
Self-supporting landings, including safety treads, per square foot	.....	.....	.....
Supported landings, including safety treads, per square foot	.....	.....	.....
Reinforced concrete columns, per linear foot	.....	.....	.....
Reinforced concrete street landings, per cubic foot	.....	.....	.....
Cement finish on street landings, including safety treads, per square foot	.....	.....	.....
Cement stairway strings, per linear foot	.....	.....	.....
Reinforced concrete curbs, including cement finish, per cubic yard	.....	.....	.....
Cement face on sides of stairways, per linear foot	.....	.....	.....
Floors—			
Concrete floor finish, per square foot	.....	.....	.....
Concrete floor foundation, per cubic yard	.....	.....	.....
Sanitary cove, per linear foot	.....	.....	.....
Cement base, including sanitary cove, per linear foot	.....	.....	.....
Pipe troughs, including covers and frame, per linear foot	.....	.....	.....
Clean cut manholes, including covers and frames, each	.....	.....	.....
Mason Work—			
Face brick, per square foot	.....	.....	.....
Common brick and hollow tile, per cubic foot	.....	.....	.....
Vent flues, per linear foot	.....	.....	.....
Fireproof ceiling, per square foot	.....	.....	.....
Railings—			
Straight level railing, including posts, per linear foot	.....	.....	.....
Curved level railing, including posts, per linear foot	.....	.....	.....
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)			
Painting—			
Station painting, complete, per station	.....	.....	.....
Total	.....	.....	.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Total of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for water pipe, gas pipe and other surface and subsurface structures	.....
Amount of bid	$.....

4. If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, *a bond in the penalty of one hundred and fifty thousand Dollars* ($150,000) *in the form hereto annexed with the following named sureties, viz.:**

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at Room No. on the floor of the building No. , in the Borough of , in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of Department, chief of Bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

, being duly sworn, says: I am*
, the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this day of , 1908.

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say "a member of the firm of ;" if a corporation, say "the (President or other officer duly authorized) of the Company."

Schedule of Securities.

(Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.)

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891, as amended), the provisions of section 45 of the Greater New York Charter and the requisition of the Public Service Commission for the First District, duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between James P. Graham and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn of a four-track underground railroad, the centre line of which shall begin at the intersection of the centre line of Flatbush avenue extension with the northerly line of Nassau street, and shall run thence southeasterly along and under the centre line of Flatbush avenue extension to a point about 20 feet north of the centre line of Willoughby street	$1,020,476 55
For the construction of pipe galleries in connection with the said railroad for the sum of	101,374 55
Total	$1,121,851 10

—and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of Corporate Stock available for the said purposes shall be one million twenty thousand four hundred and seventy-six dollars and fifty-five cents ($1,020,476.55) for railroad construction, and one hundred and one thousand three hundred and seventy-four dollars and fifty-five cents ($101,374.55) for pipe gallery construction; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue Corporate Stock of The City of New York to the amount of two hundred thousand dollars ($200,000) for railroad construction, and twenty thousand dollars ($20,000) for pipe gallery construction, at such rate of interest as the Board of Commissioners of the Sinking Fund shall prescribe, for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board under date of May 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

Contract.	Contract Awarded. For Railroad Construction.	Contract Awarded. For Pipe Gallery Construction.	Corporate Stock Requested. For Railroad Construction.	Corporate Stock Requested. For Pipe Gallery Construction.
No. 2—Section 9-C-1—Under Flatbush avenue extension and Fulton street, from Willoughby street to Ashland place—William Bradley, contractor..	$3,436,019 00	$58,695 00	$500,000 00	$10,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, No. 154 NASSAU STREET,
NEW YORK, May 26, 1908.

To the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you for your consent, as required by law, a proposed contract for the construction of Section 9-C-1 of a proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, which section extends under Flatbush avenue extension and Fulton street, from Willoughby street to Ashland place; and also for the construction of the pipe galleries embraced within such section. The proposed contract is for construction alone, in accordance with the resolution adopted by you on the 4th day of June, 1907.

The route of which the portion of the railroad to be constructed under this contract forms a part, was adopted by the former Rapid Transit Board by resolutions adopted on the 25th day of May, 1905, and thereafter consented to by the local authorities and by the Appellate Division of the Supreme Court in the Second Judicial Department. The Public Service Commission for the First District, pursuant to law, prepared detailed plans and specifications for the construction of such rapid transit railway, and included in said plans provisions for galleries, ways, subway or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors proper to be placed underground (hereinafter in this communication referred to as pipe galleries), and determined to make a separate contract for the construction of a part of the said route along Flatbush avenue extension and Fulton street, from Willoughby street to Ashland place. The form of the said contract, as duly adopted by the Commission, was submitted to the Corporation Counsel, and the Commission was advised by him, in a communication dated the 30th day of March, 1908, that it is correct in form, and such contract was approved by you on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice a week for three successive weeks in four of the daily newspapers published in The City of New York, and also continuously from day to day in the CITY RECORD, which notices stated that said proposals would be opened at the office of the Commission on Friday, the 8th day of May, 1908, at 12 o'clock noon. At the said time the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
William Bradley	$3,436,019 00	$58,695 00	$3,494,714 00
Gillard Construction Company	3,729,344 08	38,987 00	3,768,331 08
Cranford Company	5,230,495 25	80,507 00	5,311,002 25
Degnon Contracting Company	5,750,085 00	34,750 00	5,784,835 00

An informal proposal was also received from Westinghouse, Church, Kerr & Co., which was based upon what is known as the master and servant type of contract, and which differed so radically from the proposals requested by the invitation to contractors that the Commission was advised by its counsel that such proposal could not be considered.

The Commission having duly considered the said proposals did, on the 22d day of May, 1908, accept the proposal of the lowest bidder, William Bradley, for both the construction of the railroad and the pipe galleries, and accordingly awarded the contract for the construction of the same to the said William Bradley, subject to your consent, as required by law. A copy of said contract as so adopted and awarded is herewith transmitted.

William Bradley, the bidder whose proposal was so accepted, has had considerable experience in the construction of rapid transit railroads, and is at present the contractor for three sections of the Manhattan Loop lines now building in Centre and other streets in the Borough of Manhattan, and the Commission believes him to be competent to perform this work.

The Commission therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, requests you to consent to the amount of bonds available for the purposes of the said contract, and requests you to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the said railroad and pipe galleries, and the Commission does hereby make request for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and ten thousand dollars ($10,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereto affixed and attested by its Secretary this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

[SEAL.]

By W. R. WILLCOX, Chairman.
By TRAVIS H. WHITNEY, Secretary.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission did, on the 22d day of May, 1908, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accept the proposal of William Bradley for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, known as Section 9-C-1, which extends under Flatbush avenue extension and Fulton street, from Willoughby street to Ashland place, for the sum of three million four hundred thirty-six thousand and nineteen dollars ($3,436,019), and did also accept the proposal of the said William Bradley for the construction of pipe galleries embraced within the said section, for the sum of fifty-eight thousand six hundred and ninety-five dollars ($58,695); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of The City of New York to consent to the said contract, and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and ten thousand dollars ($10,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on , 1909, and that it is a correct transcript therefrom, and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Manhattan Bridge Connection, Brooklyn (Willoughby Street to Ashland Place).

INVITATION TO CONTRACTORS.

Willoughby Street to Ashland Place.

The City of New York, acting by the Public Service Commission for the First District, by this advertisement, invites proposals to construct that part of the proposed Fourth Avenue Subway which begins at a point about twenty feet north of the centre line of Willoughby street and runs through Flatbush avenue extension, private property and Fulton street to and under Ashland place to a point about forty feet south of the south line of Fulton street.

The general plan of construction calls for a subsurface railroad having four or more tracks, but the contractor will not be required under the proposed contract to provide or lay tracks, ties or ballast. A station at DeKalb avenue will be constructed, and suitable cross-overs, turnouts and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit, but several of the tracks will branch and be depressed both north and south of the station in order to avoid grade crossings and to provide convenient connections with other subways now building or to be hereafter built. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the station are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets, or on the sidewalks adjacent to private property as indicated on the plans.

The manner of construction shall be by open excavation in Flatbush avenue extension and by excavation under cover under Fulton street and Ashland place, unless otherwise provided in the contract or directed by the Commission; such portions of the Flatbush avenue extension, however, where the work may not be completed and the backfill is not placed, at the expiration of fifteen (15) months from the time of executing the contract, must be substantially boarded over to permit freedom of traffic, if so ordered by the Commission.

In the detailed plans for construction, provisions for pipe galleries along the line of the railroad are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and station to be built under this contract and note the present conditions along the line of the proposed railroad. The buildings standing within the lines of the said Flatbush avenue extension are being, or are to be demolished and the materials removed by other contractors.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this invitation.

Partial payments to the contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids or proposals will be received at the said office of the Commission, at No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at 12 o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission to enable it to determine upon what basis the proposal is made and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done, upon the basis of such quantities and unit values contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment; and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the contractor will be required to furnish security to the City by giving a bond in the penalty of two hundred thousand dollars. At the option of the successful bidder, cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which Savings Banks may invest their funds and must be approved by the Commission. The contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, 10 per cent. of each amount certified from time to time to be due to the contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, substitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission; but such substitution must be made within

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five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of faiiure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another contract with such if any, of the original bidders, as, in the opinion of the Commissior, it will be to the best interest of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Rapid Transit Railroad—(Willoughby street to Ashland place)" and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a certified check drawn upon a National or State bank or trust company within The City of New York and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of fifteen thousand dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this invitation to contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT No. 9-C-1.

For the Construction of a Part of the Proposed Manhattan Bridge Connection (Willoughby Street to Ashland Place).

Approved as to form this day of , 1908.

.....Corporation Counsel, City of New York.

MANHATTAN BRIDGE CONNECTION.

CONTRACT No. 9-C-1.

Agreement made this day of , 1909, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and William Bradley, hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled "An Act to provide for Rapid Transit Railways in Cities of Over One Million Inhabitants," and of the various acts amending the same, and of chapter 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for himself, his executors, administrators and assigns, agree each with the other, as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part, hereinafter described, of a Rapid Transit Railway with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 25, 1905, and approved by the Board of Estimate and Apportionment of The City of New York on July 14, 1905, by the Mayor on July 28, 1905, and consented to by the Appellate Division of the Supreme Court in the Second Judicial Department by an order entered on January 25, 1907. From Willoughby street to a connection with the Flatbush avenue subway now in course of construction, authority for laying certain tracks has also been given by the route and general plans of construction adopted by the said Board of Rapid Transit Railroad Commissioners April 18, 1907. The part to be constructed under this contract is described as follows, viz.:

An underground railroad, having from four to eight tracks, the centre line of which shall begin at a point about twenty feet north of the intersection of the centre line of Willoughby street with the centre line of Flatbush avenue extension; running thence southeasterly, under and along Flatbush avenue extension to a point between DeKalb avenue and Fulton street, about 110 feet from the southerly line of DeKalb avenue; thence curving easterly under Flatbush avenue extension to the easterly line thereof at a point about 70 feet from the northerly line of Fulton street; thence continuing under private property to the west line of Hudson avenue and about twenty feet from the northerly line of Fulton street; thence crossing under Hudson avenue and private property at the northeast corner of Fulton street and Hudson avenue and thence under Fulton street at an angle with the centre line thereof to a point about half way between Rockwell place and Ashland place; thence curving southerly under Fulton street and under private property at the southwest corner of Fulton street and Ashland place to a point about forty feet from the southerly line of Fulton street and about five feet east of the westerly line of Ashland place.

The precise location of the tracks, and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract and in the detailed drawings and plans hereinafter mentoned. A staton is to be constructed under this contract at and near the intersection of the railroad with DeKalb avenue as a part of the railroad. The pipe galleries which are to be constructed, as an independent item of the work, are also described in the said specifications, drawings and plans.

Flatbush Avenue Extension.

The portion of the Flatbush avenue extension above referred to has not yet been opened for traffic. The City has, however, taken title to the land, and the buildings standing within the lines of the said new street are now being or are to be demolished, and the materials thereof removed by other contractors.

Statutes Incorporated Herein.

This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the party of the second part to this contract, and his executors, administrators and assigns, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," 'her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commissior or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896 chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal, upon which this contract is founded is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Sub-Contractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a sub-contractor, the provisions of this contract shall apply to such sub-contractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the sub-contractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the sub-contractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the sub-contractor shall be subject to the provisions hereof, if furnished directly by the Contractor.

Commission May Disapprove Sub-Contractors.

The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of such sub-contractor, the portion of the work which such sub-contractor is to do or the materials which such sub-contractor is to furnish, the place of business of such sub-contractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any sub-contract to a person, firm or corporation disapproved of by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work to Be Done.

The Contractor shall at his own cost and expense, and in strict conformity with the specifications, hereinafter contained and called the specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the specifications or not, furnish all the materials and labor necessary and proper for the purpose, and, in a good, substantial and workmanlike manner, construct and provide the railroad, including therein the stations, side-tracks, switches, cross-overs, and all other appurtenances as hereinafter specified

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but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

Construction Includes Sewer and Other Incidentals.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, water mains, gas pipes, electric subways, poles and wires, pnuematic tubes, steam pipes, vaults and other surface sub-surface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pnuematic tubes, steam pipes, vaults and other sub-surface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description including underpinning wherever necessary, of all buildings of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Price for Railroad Construction.

The City shall pay, and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of three million four hundred and thirty-six thousand and nineteen dollars ($3,436,019), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries to Be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned, provisions for pipe galleries. The Contractor in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries with all appurtenances thereof.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of fifty-eight thousand six hundred and ninety-five dollars ($58,695), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans; and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of this Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of the pipe galleries.

Right of Commission to Amplify Plans, to Require Extra Work, etc.

The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right by notice to the Contractor to require additional work to be done or additional materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; provided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Extra Work, etc.

If additional work or materials shall be so required, then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then the reasonable deduction shall be made in the manner herinafter provided from the amount to be paid the Contractor for construction.

The location of the station and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms part, will constitute a great public work. All parts of the structure where exposed to public sight are, therefore, designed, and shall be constructed, with a view to the beauty of their appearance, as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, etc., to be Used.

The Contractor is to furnish of the best description all materials, machinery, elements, tools and labor necessary to construct and put in complete working order the work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required hereinbefore provided.

Contractor Has Examined Location, Plans, etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the Assistants and Superintendents under the Engineer, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any Superintendent, Assistant or other person bearing his authorization, or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to Be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additional specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the Commission or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal from Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinafter provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to work done or materials supplied shall be binding upon the City unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written notice addressed, if the Commission be the appellant, to the Contractor, or, if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal, the party receiving the same shall appoint an arbitrator, and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate an arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon each appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position, within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be a standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served the Commission and the Contractor shall select a disinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said Committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator, his place shall be filled in the same manner as that hereinbefore provided in the case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these periods last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor, and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall

be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance, appoint counsel to represent it or him, and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision, the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both.

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the completion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor, or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part thereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any such case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise, except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly Be Had.

It is expressly agreed, however, that if in any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way responsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract, any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed, includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action, and the requirement that there shall be an adequate and comfortable station. All the clauses of the specifications, and all the parts of the contract drawings are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

Plans and Contract Drawings.

The plans referred to in the specifications hereinafter contained are fifty-one (51) in number, bear date the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission and are designated as follows:

One (1) drawing marked Route No. 9-C-1, Contract Drawing No. A-3; three (3) drawings marked Contract Drawings Nos. B-101, B-104 and B-105; two (2) drawings marked Route 9-C-1, Contract Drawings Nos. B-3 and B-4; forty-five (45) drawings marked Contract Drawings Nos. C-64 to C-99, both inclusive; C-120 and Nos. C-200 to C-205, both inclusive, and C-209 and C-210.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure; and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal as the contract drawings, but designated as supplementary drawings, which are signed by the Engineer and marked as follows.

Three (3) drawings marked Route No. 9-C-1, Supplementary Drawings Nos. D-1 to D-3, both inclusive; one (1) drawing marked Route M. B. EX-1, and Nos. 9-C-1, 11-E-1 and 11-A-1, Supplementary Drawing No. D-99; one (1) drawing marked Route Nos. 9-C-1, 11-E-1 and 11-A-1, Supplementary Drawing No. D-4.

These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The supplementary drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness; and the Contractor may, at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy or error, but is to take every necessary or proper precaution to overcome the unforeseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications Not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

These specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar.
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps.
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and Other Surface o Subsurface Structures.
(134) 21. Station.
(149) 22. General Clauses.

1—Description of the Work.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the Rapid Transit Railroad known as Rout No. 9, which is described in the routes and general plan adopted by the Board of Rapi Transit Railroad Commissioners on May 25, 1905.

It is to be an underground railroad or subway having four or more tracks (but th contract does not require the Contractor to provide or lay tracks, ties or ballast), th centre line of which shall begin at a point about twenty feet north of the intersectic of the centre line of Willoughby street with the centre line of Flatbush avenue exte sion; running thence southeasterly, under and along Flatbush avenue extension to point between DeKalb avenue and Fulton street, about 110 feet from the southerly lir of DeKalb avenue; thence curving easterly under Flatbush avenue extension, to th easterly line thereof, at a point about 70 feet from the northerly line of Fulton stree thence continuing under private property to the west line of Hudson avenue and abo twenty feet from the northerly line of Fulton street; thence crossing under Hudso avenue and private property at the northeast corner of Fulton street and Hudson av nue, and thence under Fulton street at an angle with the centre line thereof to a poi about half way between Rockwell place and Ashland place; thence curving souther under Fulton street and under private property at the southwest corner of Fulton stre and Ashland place to a point about forty feet from the southerly line of Fulton stre and about five feet east of the westerly line of Ashland place.

Station to Be Constructed.

A station is to be constructed at and near the intersection of DeKalb avenue, a also suitable turnouts and crossovers, all as indicated on the plans.

This route includes provision for a two-track spur to curve into Willoughby stre and for four tracks which will extend along Fulton street easterly from Ashland pla all as indicated on plans.

There will be four tracks substantially on the same level extending from the cen line of Willoughby street to a point at about the centre line of Ashland place; and t additional tracks on the same level, extending through the station at DeKalb aven Northerly from the station two tracks will branch, and being depressed will pass nor westerly along the Flatbush avenue extension to the west line of the main structu forming a spur for a future connection with a railroad through and under Willough street.

About 200 feet southerly from the station two tracks will be depressed, and a point in Fulton street between Hudson avenue and Rockwell place two additional tra will branch, forming four tracks, two of which will also be depressed; these depres tracks will converge and come together, forming a four-track railroad on the lov level curving into Ashland place.

The elevations and grades of the several tracks between Willoughby street a Fulton street are so arranged that in the future possible connection can be made w the rapid transit railroad now building under Flatbush avenue.

The above description of the railroad to be constructed under this contract is general language, but the location of the various tracks, junctions, grades, etc., are forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself (except within the limits of private property which is to be acquired by the City for railway purposes, and wit the lines of the Flatbush avenue extension), it will be necessary to construct or construct certain sewers, together with house and other sewer connections, and to just, readjust and maintain railroads, pipes, electric subways, vaults, poles and w and other surface, subsurface and overhead structures, and to relay the street pa ment, wherever pavements exist at the time of executing this contract, both on str occupied by, and on streets other than those occupied by, the route of the railroad.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for installation of the necessary ventilating devices shall be built at the sides of the road and in connection therewith. These chambers shall be generally of the form dimensions as indicated on the plans, varying somewhat with the requirements of l conditions. They will be so arranged that the air will discharge through grat placed generally in the sidewalks in the roofs of the chambers. If owing to local ditions it becomes necessary to lead the air to gratings or other outlets away from chambers, suitable air-ways, ducts or flues shall be constructed. Drainage shall be vided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the station for the purpos admitting air to the railroad.

The chambers will be built between every two stations, one on each side of the road, generally about midway between the stations. In streets having parkways blow holes may be required in each block.

The devices for ventilation to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad, and are not to be furnished under this contract.

Emergency Exits.

The chambers shall be provided with suitable doors or openings from the railroad, and with ladders reaching to the street for use as exits in cases of emergency.

Pipe Galleries.

Pipe galleries or ways will also be constructed over, or on one or both sides of the railroad, as provided in this contract or indicated on the plans.

Pipes, etc., to Be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other subsurface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross streets, and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes.

Sewers Not in Galleries.

Sewers will not be placed in the galleries; but if necessary sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts, to receive electric wires or cables, will be placed generally as indicated on the contract drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith, will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in accordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc., and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections with Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part; and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done, and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—MANNER OF PROSECUTION.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements the Contractor shall conduct his work in compliance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy, with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work, street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadways, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic; and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Excavation, Where to be Covered.

The entire street surface on Fulton street and Ashland place and at and near the intersections of all cross streets shall be kept substantially boarded over wherever and whenever excavation is in progress, and the work of covering the street surface must be prosecuted as much as possible during the night or at times of least traffic.

Open Trench Excavation, Where Permitted.

On Flatbush avenue extension within the limits of the property recently acquired by the City for the said street, the Contractor will be permitted to prosecute his work in open trench excavation; provided, however, that all portions of the street where the work is not completed and the backfill is not placed at the expiration of fifteen months from the date of delivery of this contract, must be substantially boarded over so as to permit traffic, if so ordered by the Commission.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Access to Buildings, etc.

No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary proper and easy means for passengers to reach or leave street cars shall be maintained.

Vaults Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

The Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion on the several parts of the route, it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings or bridging in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously, and only at night, if so directed by the Engineer, and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of his order or within a period of time to be therein stated.

Removal of Buildings, etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings.

3—EXCAVATION.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and, when required, hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that, in the judgment of the Engineer, is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored within the limits of the property recently acquired by the City for the extension of Flatbush avenue; but the disposition of such materials shall be at all times subject to the approval of the Engineer.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that, with the permission of the Commission, may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of as the Contractor may desire; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary tramways to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Carts to be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides to be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting wherever possible and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work; if, however, rock should be found or boulders, or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of The City of New York relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more or masonry encountered within the line for excavation will be measured as rock excavation.

Storage of Explosives.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shall be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

4—Backfilling.

Quality of Material, How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other subsurface structure.

At such places as in the judgment of the Engineer backfilling can not be effectively done as provided above, the material must be placed and compacted by flooding with water.

On those portions of the work which are included within the limits of the property recently acquired by the City for the extension of Flatbush avenue, the backfilling is to be brought up to the grades of the enclosing streets and to a uniform grade between these streets; at the surface and extending down from the surface to the old basement or cellar floors of the buildings removed or partly removed, unless otherwise permitted by the Engineer, it is to extend not less than six (6) feet on each side of the structure beyond the limiting line thereof, and wherever necessary such means as may be approved by the Engineer shall be adopted by the Contractor to support the backfilling and prevent its encroachment on abutting property. In the event, however, of new buildings, or vault or area walls being erected by abutting owners prior to the completion of the excavation by the Contractor, he shall backfill to the grade of the regular street surface to and against these walls.

Frozen Material Not Permitted. Subsurface Structures.

Whenever pipes, sewers, or other sub-surface structures are met with, the filling must be carefully packed, rammed and tamped under such sub-surface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled.

5—Piling and Timbering.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations, ordered by the Commission and not shown on the plans, shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging or other temporary purposes, shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—Masonry.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, can not be postponed except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather, and masonry laid between December 1st and April 1st shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

7—Cement.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used, and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand to be Approved.

Before any cement is used, the brand and name of the maker must receive the approval of the Engineer, and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where manufactured, or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which, by their records, show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve, and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds, and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area of not less than one hundred and eighty (180) pounds, and at the end of twenty-eight (28) days, one (1) day in air and twenty-seven days in water, of not less than two hundred and seventy-five (275) pounds.

Chemical Analysis.

Chemical analysis will be made from time to time, and cement furnished must show a reasonably uniform composition, and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid (SO_3) nor more than 4 per cent. of magnesia (MgO).

Tests for soundness will be made as follows:

Soundness.

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre, and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy degrees (70 degrees) Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks and one shall be exposed to an atmosphere of steam above boiling water, in a loosely closed vessel for five (5) hours. These pats shall remain hard, and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent., from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store, at some convenient point in the vicinity of the work, or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection, or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—MORTAR.

Cement and Sand. Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations, and for other classes of work, as directed by the Engineer.

9—CONCRETE.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound screened gravel or sound hard broken limestone, trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inches in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼ inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement, sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone when machine mixed; when mixed by hand one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing-machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be sread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it, and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work; and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete if so ordered.

Joints Cleaned.

In all cases of joints of old with new work the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed; or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms if made of wood shall be made of boards with close-fitted matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Surfaces Not to be Painted.

The exposed faces of the concrete, excepting within station limits, will not be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—BRICK MASONRY.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required, by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brick-work, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—STONE MASONRY.

Footings for Columns.

In general columns will be set on a concrete base; in special cases, however, footing stones may be required.

Footing Stones to be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top where the column base plate is to rest shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case the contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case during the progress of the work any rubble or other masonry of a different class from that specified above shall become necessary and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class and according to the direction of the Engineer.

12—Waterproofing.

In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than four inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of plies of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit, and melt at 100 degrees Fahrenheit, being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt, of equal quality, and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used, together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete To Be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes

Fabric for Waterproofing To Be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor To Be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—Drains and Pumps.

Railroad To Be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the railroad and draining into the sewers.

Subdrains.

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the subdrains or the floor of the railroad. Such sump must be watertight, with a capacity of not less than eight hundred (800) gallons.

14—Steel and Iron.

Open Hearth Process.

Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	1500000	1500000	20% in 2"
Fracture	Ult. Str. Silky.	Ult. Str. Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120°(d.=3+.)

The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings snall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width and about one-half (½) square inch in sectional area, cut from a full-sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured, after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

Wrought Iron.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a pield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern. Tests.

All castings shall be true to pattern out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1-10) of an inch before rupture.

WORKMANSHIP.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1-16) of an inch the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be sub-punched and reamed, a punch of diameter three-sixteenths (3-16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1-16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members, shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Rollers and Bed-plates.

Rollers shall be turned and roller beds and bed-plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorous, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale and receive one coat of approved paint, as herein specified, before leaving the shops. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead ($Pb_3 O_4$). The color shall be a clean pure tint. The red lead shall be of the fineness that, when washed with water through a No. 19 silk belting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahrenheit on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 0 gallons of boiled linseed oil and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations, this shall be black carbon paint, but for the stations and for 30 feet each way therefrom, see specifications for painting, under the heading of the Stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work, as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material or adulterant shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—DUCTS.

Quality. Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1-16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To be Rodded.

After the ducts are laid and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor.

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad, as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms, additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—SEWERS.

In Accordance with Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grade, at the depths, with the connections, and in the manner, as called for by these specifications and as shown on the drawings.

Change of Location.

If, during the progress of the work, it is found in the opinion of the Engineer impracticable to construct according to the contract drawings any sewers, manholes, or other appurtenances, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of Departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the railroad shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than four feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer, and for the distance specified.

The excavation of trenches shall be fully completed at least twenty feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting, the exposed end of the sewer shall, in all cases, be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations to be Made Good.

Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth, and all other irregularities in the bottom of the trench shall be filled up to the required level and form with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized Inspector, and at no other time shall such construction work be done.

Trenches to be Kept Free from Water

The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunnelling.

When tunnelling for sewers shall be deemed advisable, it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway to be Kept Open.

At all times, the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which, in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

The contractor shall provide for the flow of all sewers, drains and water courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or gouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be water-tight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthen-ware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street, where final grades have not been established), cast-iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying watermains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Where indicated on the plan, or, if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used if Ordered.

Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

DAMAGED PAGE(S)

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms or invert centres, which are to be removed when the concrete has become sufficiently set.

Invert to be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, Etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material, and shall be secured, as elsewhere provided in these specifications.

Defective Work.

If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers. Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than ⅝ of an inch thick; 8-inch pipes shal be not less than ¾ of an inch thick; 10-inch pipes shall be not less than ⅞ of an inch thick; 12-inch pipes shall be not less than 1 inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than 2 inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe with Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than 5 inches wide. Each collar must have an internal diameter of not less than ½ inch nor more than 1½ inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than 6 inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be 4 inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are jointed the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; each shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside, and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings, according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth, in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to Be Protected.

Al fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it, and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least two and one-half feet of earth over them.

Pipes to Be Kept Clean.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to Be Protected.

The exposed ends of pipe sewers shall in all cases be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered when necessary by special bluestone eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans, and shall commence not less than twelve inches below the flow line grade of the sewer, except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically, and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer, shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds; street manhole cover, 135 to 150 pounds; sidewalk manhole head, 300 to 310 pounds; sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer, and according to plans to be furnished by him.

Manholes To Be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand, if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base, while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer-dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

A cast-iron cover of approved pattern, weighing not less than eighty nor more than ninety-five pounds, shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan, shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan and free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe, unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary, shall be taken up and rebuilt or relaid with vitrified pipe, or brick, as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings, or other details to be furnished by the Contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Back-filling.

The back-filling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer, the regrading and temporary paving over the same shall be done and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench, as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, etc., To Be Kept Clean.

During the progress of the work and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout and left clean and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main all new material required for the same shall be of the quality and laid in the manner specified below and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even, so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons or ribs shall, if required, be cast on the pipes of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All the pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

48-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent. for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such moulding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles and other defects and imperfections.

Castings to be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting to be dipped after rust has set in.

Pitch.

The coal-tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure in the hydraulic press of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise will be rejected. This test will be made at the foundry and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed, and the weight distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead it shall be caulked by means of proper tools so as to make a water-tight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead and in every respect suitable for the purpose.

Notice of Interruption to be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—Paving.

Pavement to be Restored.

As soon as the work in any open excavation or trench made under this contract within a street (except as hereinafter provided) shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as that existing previous to the commencement of construction.

There will be no paving laid under this contract within the limits of the property recently acquired by the City for the extension of Flatbush avenue; but the surface is to be brought to a uniform grade as hereinbefore provided in these specifications under the heading "4. Backfilling."

Other Pavements May Be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement, or to make an arrangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the municipal officer in charge of street paving, or any property owner, desires to lay a pavement in any street, or a sidewalk along any street, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed but not relaid, and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—Maintenance of Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.

Surface and Subsurface Structures to be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains, and all other surface or subsurface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or subsurface structure as mentioned above, or sidewalk, curb area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice to be Given.

Notice is to be given by the Contractor to all companies and the proper city officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the rearrangement of subsurface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer, they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May Do Work.

Whenever it becomes necessary to cut, move, change or reconstruct any such structures as named above, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor; such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and a half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction or alteration if performed by the City or owners shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time, as shall be adjudged by the Commission, may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures as above provided, or in case they shall consider it necessary or desirable to make any further alterations in, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—Station.

Station Plans Furnished.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the station between Tillary street and Johnson street.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar, as far as possible, to the general details of the stations, as indicated on the above-mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits, and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways, shall be "Pink Georgia," or its equal.

All marble lintels shall be "Green Veined Vermont," or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the wainscot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enameled or face bricks shall be of an approved brick of the best quality. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and, if that fail, then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level, when acting as retaining walls, shall be built of brick or concrete with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the bottom by a pipe leading to the drains. Where directed openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2⅜ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick-Facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the station sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways, entrances through private property and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms, shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete, or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors, and laid or set, as the Engineer may direct. In the designs of the stations all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the station must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning, and to permit if desired a thorough washing of all parts of the station and its approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the concrete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and

Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.

On terra cotta blocks, one (1) brown coat and two (2) finish coats.

On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles shall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish

The floors of the station platforms, closets, toilet rooms, mezzanines, and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement, and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or hereinafter specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth uniform hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalls a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundation. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landings shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the station. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered through private property.

Connecting Passageways.

The platforms of the station shall be connected with each other by two (2) overhead passageways, to enable passengers to have access to both station platforms.

Ticket Booths, Doors and News Stands.

The ticket booths, doors and news stands shall be constructed of metal covered wood with moldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass plain or frosted as indicated and shall be enclosed with bronze grille. Plate glass coin shelves shall be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and news stands, shall be of solid bronze metal without lacquer, and of weight, quality and design as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Marquise.

Over each entrance a marquise of cast iron with glass roof is to be provided extending from building to curb, or suspended from building, depending upon local conditions.

Sanitary Arrangements.

Station shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin, and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast-iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract.) All soil piping in connection therewith shall be provided as a part of the tation construction and from thence into the sewer. Between the wall spaces and he sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass as approved by the Engineer. All work must conform with the City building and health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast-iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, marquise, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one 16-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Moving Stairways or Escalator.

The Contractor shall establish an approved plant of moving stairways to be operated by electricity, generally in accordance with the contract plans, but subject to variation in detail to accommodate local requirements, including all steel framing, woodwork and all machinery necessary to complete the same ready for operation, with the exception of the electric wiring.

Ventilation.

Ventilating openings shall be constructed in the roofs of the stations. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms, and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths, and newsstands.

Pipes, Conduits, etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22—General Clauses.

Placing and Protection.

It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work to be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper Inspector.

In all work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing

to the Engineer at least one (1) week in advance of his intention to commence such operations, and before commencing manufacture, or resuming manufacture if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., to be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, waterpipe, gaspipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the rapid transit railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable federal, State and municipal regulations regarding the transportation in and around the City and harbor of materials used in, or in connection with, the work.

Condemned Materials to be Removed.

If the work or any part thereof, or any material found or brought on the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuilt or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is in his opinion incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

V.—Security to be Furnished by Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in due form executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of two hundred thousand dollars ($200,000). In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within thirty days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule, then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

When Contractor May Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may, from time to time, substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall, from time to time, collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another contractor or contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale, and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor, within ten days after notice from the Commission so to do, shall (unless the time be extended by the Commission) by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit there shall be pending any claim for damages or loss caused to others by the negligence, fault or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor, as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract, and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balances during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned, then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments; How To Be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been delivered in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for 90 per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be 90 per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor without any deduction except as herein otherwise provided. In case the contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determination of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And, if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of construction under this contract, the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller, the City shall pay to the Contractor in cash the amount remaining after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained, as provided in this contract.

Contractor's Claims for Damage. Statements of Damage To Be Filed With Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence that Labor and Materials Have Been Paid For.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after the final completion of the works, that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid, such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Contractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor, or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to

pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition, until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law, then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall in the course of construction be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to Be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in connection with the work, as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any subcontractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any subcontractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any subcontractor or other person employed on the works.

Money Due the Contractor May Be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any sub-contractor or other person employed on the work, the amount of such claim, or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a Court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon, and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or structures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any sub-contractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures, for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor or of any sub-contractor or of any other person in the course of any employment under the Contractor or any sub-contractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be prima facie evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract, by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor, by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property, the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Works During Construction.

All risk of loss or damage to the works or to the materials therefor prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost and the construction shall be carried forward by him in accordance with this contract without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference by Injunctions, to Acquire Real Estate, etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contractor shall enforce his rights against the City under this provision solely by claim for money and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense, or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counter-claim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a Court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transportation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, etc.

Commencement and Completion of Work.

Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price to be Reduced for Delay.

In the event of delay in completion of the works beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amount theretofore certified to be due), there shall be deducted and retained by the City as liquidated damages for such delay (and not as a penalty) one per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as such completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceeding involving this clause of the contract, the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall not be reasonably probable that the works will be completed within the period above limited, then and in any such case the Commission upon notice to the Contractor of not less than thirty days may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City by the Commission in addition to every, or in substitution for any other, remedy which it

may have by law or hereunder, may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk or otherwise as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to Contractors, upon such terms as the Commission may deem proper; the same to provide among other things that the new Contractor shall allow for so much of construction as has been already completed, a reasonable amount to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Contractor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upon the bond, or with respect to the deposits of cash or securties made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—Miscellaneous Provisions.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor, and if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail, whether of construction or location of route, as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provisions in Case Commission Cease.

In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this Contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof, as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; aud that each such laborer, workman or mechanic employed by the Contractor of by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of Section 13 of the Labor Law it is further provided that if the provisions of the said Section 13 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof, the same shall be deemed of no effect, and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission, and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has herunto set his hand and seal the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By....., Chairman.

Attest:

....., Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be, the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary, of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney, being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared to me known, who, being by me first duly sworn, did depose and say: That he resided in , in the State of ; that he is of the , the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

Contractor's Bond.

Willoughby Street to Ashland Place.

(9-C-1.)

Know all men by these presents, that of hereinafter called the Contractor, and and hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City in the penal sum of two hundred thousand dollars ($200,000) lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said two hundred thousand dollars ($200,000) and each of the said Sureties to be so held and bound only for a portion of said penal sum as follows:

The said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($).

In witness whereof, the Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these presents to be attested by the proper officers of each of them which is a corporation, this day of , 1908.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad (including pipe galleries), known as Manhattan Bridge connection from Willoughby street to Ashland place, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof.

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Surities or any of them as a defence upon this bond; that the Sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to roof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties . ust be added.

Contractor's Proposal.

(9-C-1.)

(*Willoughby Street to Ashland Place.*)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors.

Copy of Form of Contract.

Copy of Form of Bond.

Schedule of Securities, filled up only if the bidder desires to deposit secureties in lieu of cash.

To the Public Service Commission for the First District:

1. The undersigned*

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

do hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract with The City of New York in the form therein referred to and to perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad; but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit values thereof, and are submitted in accordance with the invitation to contractors. In submitting this estimate, it is understood that the acceptance

of this proposal by the Commission imposes upon it no obligation to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

RAILROAD CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per square yard	.....	.....	.....
With treated fabric, 3-ply, per square yard	.....	.....	.....
With treated fabric, 4-ply, per square yard	.....	.....	.....
With treated fabric, 5-ply, per square yard	.....	.....	.....
With treated fabric, 6-ply, per square yard	.....	.....	.....
Brick laid in asphalt mastic, per cubic yard	.....	.....	.....
†Drains—			
15-inch vitrified pipe, per linear foot	.....	.....	.....
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8 inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch or 3-inch vitrified pipe, per linear foot	.....	.....	.....
16-inch cast iron pipe, per linear foot	.....	.....	.....
12-inch cast iron pipe, per linear foot	.....	.....	.....
10-inch cast iron pipe, per linear foot	.....	.....	.....
8-inch cast iron pipe, per linear foot	.....	.....	.....
6-inch cast iron pipe, per linear foot	.....	.....	.....
4-inch cast iron pipe, per linear foot	.....	.....	.....
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds	.....	.....	.....
Steel beams, per ton of 2,000 pounds	.....	.....	.....
Cast steel, per ton of 2,000 pounds	.....	.....	.....
Cast iron, per ton of 2,000 pounds	.....	.....	.....
Tunnel ducts	.....	.....	.....
Vault lights, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Wire mesh (expanded metal), per square yard	.....	.....	.....
Gas pipe handrail, per linear foot	.....	.....	.....
Total			$.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.
† Includes all specials and fittings

Sewers Along Line and Off Line.

*Sewers.	Along Line. Lin. Ft.	Price.	Amount.	Off Line. Lin. Ft.	Price.	Amount.
6-inch cast-iron pipe	.....	$.....	$.....	.....	$.....	$.....
8-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
10-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
12-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
14-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
16-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
18-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
20-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
24-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
30-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
36-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
42-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
48-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
54-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
6-inch vitrified pipe	.....	.....	.....	.....	.....	.....
8-inch vitrified pipe	.....	.....	.....	.....	.....	.....
12-inch vitrified pipe	.....	.....	.....	.....	.....	.....
15-inch vitrified pipe	.....	.....	.....	.....	.....	.....
18-inch vitrified pipe	.....	.....	.....	.....	.....	.....
24-inch vitrified pipe	.....	.....	.....	.....	.....	.....
Egg-shaped Brick or Concrete—						
3 feet by 2 feet	.....	.....	.....	.....	.....	.....
3 feet 6 inches by 2 feet 4 inches.	.....	.....	.....	.....	.....	.....
4 feet by 2 feet 8 inches	.....	.....	.....	.....	.....	.....
4 feet by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches by 2 feet 10 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 9 inches by 3 feet 2 inches.	.....	.....	.....	.....	.....	.....
Circular—						
3 feet 9 inches	.....	.....	.....	.....	.....	.....
4 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches	.....	.....	.....	.....	.....	.....
4 feet 9 inches	.....	.....	.....	.....	.....	.....
5 feet	.....	.....	.....	.....	.....	.....
5 feet 3 inches	.....	.....	.....	.....	.....	.....
5 feet 6 inches	.....	.....	.....	.....	.....	.....
6 feet	.....	.....	.....	.....	.....	.....
6 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 6 inches	.....	.....	.....	.....	.....	.....
8 feet	.....	.....	.....	.....	.....	.....
9 feet	.....	.....	.....	.....	.....	.....
9 feet 3 inches	.....	.....	.....	.....	.....	.....
9 feet 6 inches	.....	.....	.....	.....	.....	.....
*Sewers.	Along Line. Lin. Ft.	Price.	Amount.	Off Line. Lin. Ft.	Price.	Amount.
Special Forms—						
6 feet by 8 feet 6 inches	.....	.....	.....	.....	.....	.....
7 feet by 13 feet 8 inches	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.
† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe. Lin. Ft.	Price.	Amount.	Gas Pipe. Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20 inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot	.....	$.....	$.....
Street railway track (single track), per linear foot	.....	.....	.....
Elevated railway columns, each	.....	.....	.....
Total			$.....

Stations.

Classified Items.	Quantity.	Price.	Amount.
Tile—			
Straight tile, per square foot	.....	$.....	$.....
Curved tile, per square foot	.....	.....	.....
Ceramic tile, per square foot	.....	.....	.....
Ceramic tile (special pieces), each (Scratch coat to be included in the above items.)	.....	.....	.....
Marble—			
Platform wainscot, per square foot	.....	.....	.....
Lintels, Type "A," each	.....	.....	.....
Lintels, Type "B," each	.....	.....	.....
Lintels, toilet, each	.....	.....	.....
Lintels, special, each	.....	.....	.....
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station	.....	.....	.....
Back pressure valves, check and gate, each	.....	.....	.....
Toilet fixtures, complete, each	.....	.....	.....
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot	.....	.....	.....
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station	.....	.....	.....
Catch basins, including traps, pipes and sewer connections for same, each	.....	.....	.....
Fire service connections, including necessary pipe and valves, each	.....	.....	.....
Wall drains, complete, each	.....	.....	.....
Plastering—			
Flat suspended ceiling, complete, per square yard	.....	.....	.....
Arched suspended ceiling, complete, per square yard	.....	.....	.....
First, second and finish coats on brick or tile, per square yard	.....	.....	.....
Second and finish coats on concrete, per square yard	.....	.....	.....
Portland cement finish on concrete, per square yard.	.....	.....	.....
Wire lath and steel furring, exclusive of plaster, per square yard	.....	.....	.....
Woodwork—			
Ticket booths, Type "A," each	.....	.....	.....
Ticket booths, Type "B," each	.....	.....	.....
Ticket booths, Type "C," each	.....	.....	.....
Ticket booths, Type "D," each	.....	.....	.....
Ticket booths, Type "F," each	.....	.....	.....
Ticket booths, special, each	.....	.....	.....
News stands, each	.....	.....	.....
Fixtures for masonry booths, each	.....	.....	.....
Fixtures for news stands, each	.....	.....	.....
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each	.....	.....	.....
Doors, Type "B," including hardware, each	.....	.....	.....
Doors, Type "C," including hardware, each	.....	.....	.....
Doors, Type "D," including hardware, each	.....	.....	.....
Doors, Type "E," including hardware, each	.....	.....	.....
Doors, special, including hardware, each	.....	.....	.....
Trim and doors for panel and switchboards, each	.....	.....	.....
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread	.....	.....	.....
Supported stairways, including safety treads, per linear foot tread	.....	.....	.....

Classified Items.	Quantity.	Price.	Amount.
Self-supporting landings, including safety treads, per square foot	.....	.....	.....
Supported landings, including safety treads, per square foot	.....	.....	.....
Reinforced concrete columns, per linear foot	.....	.....	.....
Reinforced concrete street landings, per cubic foot	.....	.....	.....
Cement finish on street landings, including safety treads, per square foot	.....	.....	.....
Cement stairway strings, per linear foot	.....	.....	.....
Reinforced concrete curbs, including cement finish, per cubic yard	.....	.....	.....
Cement face on sides of stairways, per linear foot	.....	.....	.....
Floors—			
Concrete floor finish, per square foot	.....	.....	.....
Concrete floor foundation, per cubic yard	.....	.....	.....
Sanitary cove, per linear foot	.....	.....	.....
Cement base, including sanitary cove, per linear foot	.....	.....	.....
Pipe troughs, including covers and frame, per linear foot	.....	.....	.....
Clean cut manholes, including covers and frames, each	.....	.....	.....
Mason Work—			
Face brick, per square foot	.....	.....	.....
Common brick and hollow tile, per cubic foot	.....	.....	.....
Vent flues, per linear foot	.....	.....	.....
Fireproof ceiling, per square foot	.....	.....	.....
Railings—			
Straight level railing, including posts, per linear foot	.....	.....	.....
Curved level railing, including posts, per linear foot	.....	.....	.....
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)			
Painting—			
Station painting, complete, per station	.....	.....	.....
Total			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Amount of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.

(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for water pipe, gas pipe and other surface and subsurface structures	.....
Amount of bid	$.....

4. If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the penalty of two hundred thousand dollars ($200,000) in the form hereto annexed with the following named sureties, viz.:*

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at Room No. on the floor of the building No. in the Borough of in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to Contractors and this Contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

being duly sworn, says: I am* the proposing Contractor above named.

I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this day of , 1908.

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of "; if a corporation, say "the (President or other officer duly authorized) of the Company."

Schedule of Securities.

Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891, as amended), the provisions of section 45 of the Greater New York Charter and the requisition of the Public Service Commission for the First District, duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between William Bradley and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn of an underground railroad, having from four to eight tracks, the centre line of which shall begin at a point about 20 feet north of the intersection of the centre line of Willoughby street with the centre line of Flatbush avenue extension; running thence southeasterly under and along Flatbush avenue extension to a point between DeKalb avenue and Fulton street, about 110 feet from the southerly line of DeKalb avenue; thence curving easterly under Flatbush avenue extension to the easterly line thereof, at a point about 70 feet from the northerly line of Fulton street; thence continuing under private property to the west line of Hudson avenue and about 20 feet from the northerly line of Fulton street; thence crossing under Hudson avenue and private property at the northeast corner of Fulton street and Hudson avenue, and thence under Fulton street at an angle with the centre line thereof to a point about half way between Rockwell place and Ashland place; thence curving southerly under Fulton street and under private property at the southwest corner of

Fulton street and Ashland place to a point about 40 feet from the southerly line of Fulton street and about 5 feet east of the westerly line of Ashland place	$3,436,019 00
For the construction of pipe galleries in connection with the said railroads for the sum of	58,695 00
Total	$3,494,714 00

—and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of Corporate Stock available for the said purposes shall be three million four hundred and thirty-six thousand and nineteen dollars ($3,436,019) for railroad construction, and fifty-eight thousand six hundred and ninety-five dollars ($58,695) for pipe gallery construction; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue Corporate Stock of The City of New York to the amount of five hundred thousand dollars ($500,000) for railroad construction, and ten thousand dollars ($10,000) for pipe gallery construction, at such rate of interest as the Board of Commissioners of the Sinking Fund shall prescribe, for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board under date of May 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond, and the Acting President of the Borough of Manhattan—16.

Contract.	Contract Awarded. For Railroad Construction.	Contract Awarded. For Pipe Gallery Construction.	Corporate Stock Requested. For Railroad Construction.	Corporate Stock Requested. For Pipe Gallery Construction.
No. 3—Sections 11-E-1 and 11-A-1—Under Ashland place and Fourth avenue, from Fulton street to Sackett street—William Bradley, contractor..	$3,392,091 50	$208,135 00	$500,000 00	$30,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, No. 154 NASSAU STREET,
NEW YORK, May 26, 1908.

To the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you for your consent as required by law a proposed contract for the construction of section 11-E-1 and 11-A-1 of the proposed Fourth Avenue Rapid Transit Railroad in the Borough of Brooklyn, which section extends under Ashland place and Fourth avenue from Fulton street to Sackett street, and also for the construction of the pipe galleries embraced within such section. The form of the proposed contract is for construction alone, in accordance with the resolution adopted by your Board on the 4th day of June, 1907.

The route of which the portion of the railroad to be constructed under this contract forms a part was adopted by the former Rapid Transit Board by resolutions adopted on the 1st day of June, 1905, and thereafter consented to by the local authorities and by the Appellate Division of the Supreme Court in the Second Judicial Department. The Public Service Commission for the First District, pursuant to law, prepared detailed plans and specifications for the construction of such Rapid Transit Railway and included in said plans provisions for galleries, ways, subways or tunnels, for gas or water pipes, electric wires and other sub-surface structures and conductors proper to be placed underground (hereinafter in this communication referred to as pipe galleries) and determined to make a separate contract for the construction of a part of the said route under Ashland place and Fourth avenue from Fulton street to Sackett street. The form of the said contract as duly adopted by the Commission was submitted to the Corporation Counsel, and the Commission was advised by him in a communication dated the 30th of March, 1908, that it is correct in form, and such contract was approved by your Honorable Board on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice a week for three successive weeks in four of the daily newspapers published in The City of New York and also continuously from day to day in the CITY RECORD, which notices stated that said proposals would be opened at the office of the Commission on Friday, the 8th day of May, 1908, at 12.00 o'clock noon. At the said time and place the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
William Bradley	$3,392,091 50	$208,135 00	$3,600,226 50
The Degnon Contracting Company	4,766,587 00	121,210 00	4,887,797 00
Cranford Company	4,809,574 00	250,935 00	5,060,509 00

An informal proposal was also received from Westinghouse, Church, Kerr & Co., which was based upon what is known as the master and servant type of contract, and which differed so radically from the proposals requested by the invitation to contractors that the Commission was advised by its Counsel that such proposal could not be considered.

The Commission having duly considered the said proposals, did, on the 22d day of May, 1908, accept the proposal of the lowest bidder, William Bradley, both for the construction of the railroad and the pipe galleries, and accordingly awarded the contract for the construction of the same to the said William Bradley, subject to your consent, as required by law. A copy of said contract as so adopted and awarded is herewith transmitted.

William Bradley, the bidder whose proposal was accepted, has had considerable experience in the construction of rapid transit railroads, and is at present the contractor for three sections of the Manhattan Loop Lines now building in Centre and other streets in the Borough of Manhattan, and the Commission believes him to be competent to perform this work.

The Commission, therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, requests your Honorable Board to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and requests you to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and the Commission does hereby make request for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereto affixed and attested by its Secretary, this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
[SEAL.] By W. R. WILLCOX, Chairman.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission did, on the 22d day of May, 1908, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accept the proposal of William Bradley for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, known as Section 11-E-1 and 11-A-1, which extends under Ashland place and Fourth avenue, from Fulton street to Sackett street, for the sum of three million three hundred and ninety-two thousand and ninety-one dollars and fifty cents ($3,392,091.50), and did also accept the proposal of the said William Bradley for the construction of pipe galleries embraced within the said section, for the sum of two hundred and eight thousand one hundred and thirty-five dollars ($208,135); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of The City of New York to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) for pipe gallery construction, these being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on , 1909, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof I have hereunto subscribed my hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Fourth Avenue Route, Brooklyn (Ashland Place and Fourth Avenue, Fulton Street to Sackett Street).

INVITATION TO CONTRACTORS.

(Fourth Avenue and Ashland Place—Fulton Street to Sackett Street.)

The City of New York, acting by the Public Service Commission for the First District, by this advertisement invites proposals to construct that part of the proposed Fourth avenue subway which begins at a point under Ashland place about forty (40) feet south of the south line of Fulton street and runs through and under Ashland place and private property on the west side of Ashland place, under the present subway structure in Flatbush avenue, and along and under Fourth avenue and private property on the easterly side thereof to Pacific street, thence continuing southerly along and under Fourth avenue to a point about sixty (60) feet north of the north line of Sackett street.

The general plan of construction calls for a four-track subsurface railroad, but the contractor will not be required under the contract proposed to provide or lay tracks, ties or ballast. A station on Fourth avenue, between Pacific street and Dean street, will be constructed, and suitable crossovers, turnouts and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the station are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets, or on the sidewalks adjacent to private property, as indicated on the plans.

The manner of construction shall be by excavation under cover, unless otherwise provided in the contract or permitted by the Commission.

In the detailed plans for construction, provisions for pipe galleries along the line of the railroad are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and station to be built under this contract and note the present conditions along the line of the proposed railroad.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this invitation.

Partial payments to the contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids or proposals will be received at the said office of the Commission, at No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at 12 o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission to enable it to determine upon what basis the proposal is made and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done upon the basis of such quantities and unit values contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the contractor will be required to furnish security to the City by giving a bond in the penalty of two hundred thousand dollars. At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which savings banks may invest their funds and must be approved by the Commission. The contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten per cent. of each amount certified from time to time to be due to the contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, substitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission, but such substitution must be made within five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of failure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another

contract with such, if any, of the original bidders as in the opinion of the Commission it will be to the best interest of the City to contract with, or may by new adverisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Rapid Transit Railroad—Fourth Avenue and Ashland Place, from Fulton Street to Sackett Street," and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a certified check drawn upon a National or State bank or trust company within The City of New York, and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of fifteen thousand dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT No. 11-E-1 AND 11-A-1.

For the Construction of a Part of Proposed Rapid Transit Railroad, Fourth Avenue Route, Ashland Place and Fourth Avenue, Brooklyn, Fulton Street to Sackett Street.

Approved as to form this day of , 1908.

.....Corporation Counsel, City of New York.

FOURTH AVENUE ROUTE.

CONTRACT 11-E-1 AND 11-A-1.

Agreement made this day of , 1908, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and William Bradley, of , hereinafter called the Contractor, party of the second part;

Whereas, The Commission, in behalf of the City, by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled "An Act to Provide for Rapid Transit Railways in Cities of Over One Million Inhabitants," and of the various acts amending the same, and of chatper 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York, and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for himself, his executors and administrators and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part hereinafter described of a rapid transit railroad, with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on June 1, 1905, and approved by the Board of Estimate and Apportionment of The City of New York on July 14, 1905, and by the Mayor on July 28, 1905, and consented to by the Appellate Division of the Supreme Court in the Second Judicial Department by an order entered on the 18th day of June, 1906.

The part to be constructed under this contract is described as follows, viz.:

A four-track underground railroad or subway, the centre line of which shall begin at a point on Ashland place about five (5) feet east of the west line thereof and about forty (40) feet south of the south line of Fulton street; thence curving southeasterly under Ashland place to a point about six and one-half (6½) feet west of the centre line thereof and about one hundred and sixty-five (165) feet north of the north line of Lafayette avenue; thence southerly under Ashland place and parallel with the centre line thereof to a point about forty (40) feet south of the north line of Hanson place; thence curving southwesterly under Flatbush avenue, passing under the present rapid transit railroad in Flatbush avenue and under Fourth avenue to a point about twenty-two (22) feet east of the centre line of Fourth avenue and about ninety (90) feet north of the centre line of Pacific street; thence continuing under Fourth avenue to a point about twelve (12) feet west of the centre line thereof and about one hundred and eleven (111) feet north of the centre line of Bergen street; thence curving southerly under Fourth avenue to a point on the centre line thereof at the north line of St. Marks place; thence southerly along the centre line of Fourth avenue to a point about sixty (60) feet north of the north building line of Sackett street.

The precise location of the tracks and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract and in the detailed drawings and plans hereinafter mentioned. A station is to be constructed under this contract as a part of the railroad, between Pacific street and Dean street. The pipe galleries which are to be constructed, as an independent item of the work, are also described in the said specifications, drawings and plans.

Statutes Incorporated Herein.

This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenience, and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the party of the second part to this contract, and his executors, administrators and assigns, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "its," "her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891, as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto, which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May Be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Sub-Contractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a sub-contractor, the provisions of this contract shall apply to such sub-contractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the sub-contractor, his officers, agents and employees, as if they were employees of the Contractor. The employees of the sub-contractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the sub-contractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Sub-Contractor.

The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of such sub-contractor, the portion of the work which such sub-contractor is to do or the materials which such sub-contractor is to furnish, the place of business of such sub-contractor, and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any sub-contract to a person, firm or corporation disapproved of by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work to be Done—Construction Includes Sewer and other Incidentals.

The Contractor shall at his own cost and expense, and in strict conformity with the specifications, hereinafter contained and called the Specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the Specifications or not, furnish all the materials and labor necessary and proper for the purpose, and, in good, substantial and workmanlike manner, construct and provide the railroad, including therein the station, side-tracks, switches, cross-overs, and all other appurtenances as hereinafter specified, but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condi-

tion as existed before construction shall have been begun. All such work of every description including under-pinning wherever necessary, of all buildings or structures, of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Fourth Avenue Trunk Sewer.

For that portion of the route between the intersection of Ashland place with Hanson place and the intersection of Butler street with Fourth avenue, now occupied in part by the Hanson place and Fourth avenue trunk sewer, the Contractor shall provide, in the manner indicated on the contract drawings, or in such other manner as shall be approved by the Engineer, for diverting and maintaining uninterruptedly the flow of the said trunk sewer during the progress of the work, and in case the temporary sewer shall be abandoned prior to the time of the completion of this contract, the Contractor shall in that event remove any material that may be unnecessary for the purpose of the railroad and shall complete the work in accordance with the drawings.

Price for Railroad Construction.

The City shall pay, and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of three million three hundred and ninety-two thousand and ninty-one dollars and fifty cents ($3,392,091.50), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries to Be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned provisions for pipe galleries. The Contractor, in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries, with all appurtenances thereof.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of two hundred and eight thousand one hundred and thirty-five dollars ($208,135), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What Is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans; and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of this Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of pipe galleries.*

* The five paragraphs in brackets are to be omitted in case the bid for constructing pipe galleries is rejected.

Right of Commission to Amplify Plans, to Require Extra Work, etc.

The Commission shall have the right during the progress of the work to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right by notice to the Contractor to require additional work to be done or additionl materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; provided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Etra Work, etc.

If additional work or materials shall be so required then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then the reasonable value thereof shall be deducted in the manner hereinafter provided from the amount to be paid to the Contractor.

The location of the station and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms a part, will constitute a great public work. All parts of the structure where exposed to public sight are therefore designed, and shall be constructed, with a view to the beauty of their appearance as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawing and according to the other provisions of this contract and within the times specified in this contract in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be a deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, etc., to be Used.

The Contractor is to furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as hereinbefore provided.

Contractor Has Examined Location, Plans, etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates and the Contractor hereby approves the most thorough and minute inspection by the Commission and its Engineer and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligvations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the assistants and superintendents under the Engineer, and any persons designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any superintendent, assistant or other person bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additionl specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the Commission or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal from Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinafter provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to work done or materials supplied shall be binding upon the City unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written noticed addressed, if the Commission be the appellant, to the Contractor, or, if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal, the party receiving the same shall appoint an arbitrator and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate an arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon such appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position, within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be a standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served the Commission and the Contractor shall select a distinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said Committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator, his place shall be filled in the same manner as that hereinbefore provided in case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these periods last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor, and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance appoint counsel to represent it or him,

and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision, the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both.

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the completion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor, or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part thereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly be Had.

It is expressly agreed, however, that if in any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way responsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract, any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action, and the requirement that there shall be an adequate and comfortable station. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

The plans referred to in the specifications hereinafter contained are forty-one (41) in number, bear date the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission and are designated as follows:

Two (2) drawings marked Route Nos. 11-E-1 and 11-A-1; Contract Drawings Nos. A-4 and A-5; three (3) drawings marked Contract Drawings Nos. B-101, B-104 and B-105, and six (6) drawings marked Route Nos. 11-E-1 and 11-A-1. Contract Drawings Nos. B-5 to B-10, both inclusive; twenty-one (21) drawings marked Contract Drawings Nos. C-100 to C-120, both inclusive; nine (9) drawings marked Contract Drawings Nos. C-200 to C-206, inclusive, and C-211 and C-212.

Plans and Contract Drawings.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure; and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal, but designated as Supplementary Drawings, which are signed by the Engineer and marked as follows: Two (2) drawings marked Routes Nos. 9-C-1, 11-E-1 and 11-A-1; Supplementary Drawings Nos. D-4 and D-99; five (5) drawings marked Route Nos. 11-E-1 and 11-A-1; Supplementary Drawings Nos. D-5 to D-9, both inclusive; and two (2) drawings marked Routes Nos. 11-E-1, 11-A-1 and 2; Supplementary Drawings Nos. D-10 and D-100. These Supplementary Drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The Supplementary Drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness; and the Contractor may, at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the Supplementary Drawings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the Supplementary Drawings, or if in any way such Supplementary Drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy, or error, but is to take every necessary or proper precaution to overcome the unforeseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications Not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except that, upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

These specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar.
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps.
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and other Surface or Subsurface Structures.
(133) 21. Station.
(149) 22. General Clauses.

1—DESCRIPTION OF THE WORK.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the rapid transit railroad known as Route No. 11, or the Fourth Avenue Route (Brooklyn), which is described in the routes and general plan adopted by the Board of Rapid Transit Railroad Commissioners on the 1st day of June, 1905.

It is to be a four track underground railroad or subway (but this contract does not require the Contractor to provide or lay tracks, ties or ballast), the centre line of which shall begin at a point on Ashland place about five (5) feet east of the west line thereof and about forty (40) feet south of the south line of Fulton street; thence curving southeasterly under Ashland place to a point about six and one-half (6½) feet west of the centre line thereof and about one hundred and sixty-five (165) feet north of the north line of Lafayette avenue; thence southerly under Ashland place and parallel with the centre line thereof to a point about forty (40) feet south of the north line of Hanson place; thence curving southwesterly under Flatbush avenue, passing under the present rapid transit railroad in Flatbush avenue and under Fourth avenue to a point about twenty-two (22) feet east of the centre line of Fourth avenue and about ninety (90) feet north of the centre line of Pacific street; thence continuing under Fourth avenue to a point about twelve (12) feet west of the centre line thereof and about one hundred and eleven (111) feet north of the centre line of Bergen street; thence curving southerly under Fourth avenue to a point on the centre line thereof at the north line of St. Marks place; thence southerly along the centre line of Fourth avenue to a point about sixty (60) feet north of the north building line of Sackett street.

Station To Be Constructed.

A station is to be constructed on Fourth avenue between Pacific street and Dean street, also suitable turnouts and crossovers, all as are indicated on the plans.

The above description of the railroad to be constructed under this contract is in general language, but the location of the various tracks, junctions, grades, etc., are set forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself, it will be necessary to construct or reconstruct certain sewers, together with house and other sewer connections, and to adjust, readjust and maintain railroads, pipes, electric subways, vaults, poles and wires and other surface, subsurface and overhead structures, and to relay the street pavement, both on streets occupied by, and on streets other than those occupied by, the route of the railroad.

For that portion of the route between the intersection of Ashland place with Hanson place and the intersection of Butler street with Fourth avenue, now occupied in part by the Hanson place and Fourth avenue trunk sewer, the Contractor shall provide, in the manner indicated on the contract drawings, or in such other manner as shall be approved by the Engineer, for diverting and maintaining uninterruptedly the flow of the said trunk sewer during the progress of the work, and in case the temporary sewer shall be abandoned prior to the time of the completion of this contract, the Contractor shall in that event remove any material that may be unnecessary for the purpose of the railroad and shall complete the work in accordance with the drawings.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for the installation of the necessary ventilating devices shall be built at the sides of the railroad and in connection therewith, or blow holes shall be constructed over the roof. These chambers or blow holes shall be generally of the form and dimensions as indicated on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks, in the roofs of the chambers, or in the park spaces over the railroad. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from these points, suitable air-ways, ducts or flues shall be constructed. Drainage shall be provided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the station for the purpose of admitting air to the railroad.

The chambers will be built between every two stations, one on each side of the railroad, generally about midway between the stations. In streets having parkways the blow holes will be required in each block.

The devices for ventilation to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad, and are not to be furnished under this contract.

Emergency Exits.

The chambers shall be provided with suitable doors or openings from the railroad, and with ladders reaching to the street for use as exits in cases of emergency; also at the blow holes, ladders shall be provided.

Special Emergency Exits.

Where ventilating chambers and devices are not provided, other than blow holes in the parkways, special emergency exits will be constructed at the sides of the railroad as indicated on the plans, one on each side of the railroad between stations.

Pipe Galleries.

Pipe galleries or ways will also be constructed over, or on one or both sides of, the railroad as provided in this contract or indicated on the plans.

Pipes, etc., to be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other sub-surface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross streets, and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes.

Sewers not in Galleries.

Sewers will not be placed in the galleries; but, if necessary, sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts, to receive electric wires or cables, will be placed generally as indicated on the Contract Drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith, will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in acordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc, and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections With Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part; and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done, and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and sub-surface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—MANNER OF PROSECUTION.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements the Contractor shall conduct his work in compliance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy, with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work, street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadways, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic; and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Excavation, Where to Be Covered.

On Ashland place and Fourth avenue, excepting within the park areas, and the entire intersection at Ashland place, Hanson place, Atlantic avenue, Flatbush avenue and Fourth avenue, the street surface shall be kept substantially boarded over wherever and whenever excavation is in progress; and the work of covering the street surface must be prosecuted as much as possible during the night or at times of least traffic.

Open Trench Excavation, Where Permitted.

Within the park areas on Fourth avenue the Contractor will be permitted to prosecute his work in open trench excavation.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Parks and Parkways, Trees, Etc.

In any park or parkway or where any grass plots or trees exist along the street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. Such trees as are found along the line of the route and between the necessary side lines of excavation are to be properly supported in place, if in the judgment of the Engineer such trees can thereby be saved. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree such as the Commissioner of Parks may require and in such a position as he shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

In replanting trees and the replanting of grass plots the Contractor must be governed by the requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be as approved by such authorities.

Access to Buildings, Etc.

No building shall, without the consent of the occupant, and after notice to the Engineer be deprived of means of access thereto; and, where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary proper and easy means for passengers to reach or leave street cars shall be maintained.

Vault Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, Etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

The Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion, on the several parts of the route, it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings, or bridging, in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously, and only at night if so directed by the Engineer and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

No materials of any nature shall be stored along the roadways of Ashland place and Fourth avenue. On cross-streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of his order, or within a period of time to be therein stated.

Removal of Buildings, Etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings.

3—EXCAVATION.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satis-

faction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored within the limits of the park areas; but the disposition of such material shall be at all times subject to the approval of the Engineer.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that with the permission of the Commission may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary tramways to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Carts to be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other sub-surface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides to be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting wherever possible and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work; if, however, rock should be found or boulders, or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more or masonry encountered within the line for excavation will be measured as rock excavation.

Storage of Explosives.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shall be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

4.—BACKFILLING.

Quality of Material. How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other sub-surface structure.

At such places as in the judgment of the Engineer backfilling can not be effectively done as provided above, the material must be placed and compacted by flooding with water.

Sub-surface Structures; Frozen Material not Permitted.

Whenever pipes, sewers or other sub-surface structures are met with, the filling must be carefully packed, rammed and tamped under such sub-surface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled.

5—PILING AND TIMBERING.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations, ordered by the Commission and not shown on the plans, shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging or other temporary purposes, shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—MASONRY.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

7—CEMENT.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used, and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand to Be Approved.

Before any cement is used, the brand and name of the maker must receive the approval of the Engineer, and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where manufactured, or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which, by their records, show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve, and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds; and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area, of not less than one hundred and eighty (180) pounds; and at the end of twenty-eight (28) days, one (1) day in air and twenty-seven days in water, of not less than two hundred and seventy-five (275) pounds.

Chemical Analysis.

Chemical analysis will be made from time to time, and cement furnished must show a reasonably uniform composition, and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid (S_1O_3) nor more than 4 per cent. of magnesia (Mg O).

Soundness.

Tests for soundness will be made as follows:

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre, and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy degrees (70 degrees) Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks and one shall be exposed to an atmosphere of steam above boiling water, in a loosely closed vessel for five (5) hours. These pats shall remain hard, and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent., from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store, at some convenient point in the vicinity of the work, or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection, or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—MORTAR.

Cement and Sand. Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations; and for other classes of work, as directed by the Engineer.

9—CONCRETE.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound screened gravel or sound hard broken limestone, trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inches in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼ inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement, sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone when machine mixed; when mixed by hand one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing-machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work; and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete if so ordered.

Joints Cleaned.

In all cases of joints of old with new work the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight, a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed; or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms, if made of wood, shall be made of boards with close-fitted matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set—Forms Removed—Surface Irregularities Corrected—Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Surface Not to be Painted.

The exposed faces of the concrete, excepting within station limits, will be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—BRICK MASONRY.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brick-work, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—STONE MASONRY.

Footings for Columns.

In general columns will be set on a concrete base; in special cases, however, footing stones may be required.

To be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top, where the column base plate is to rest, shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case

Footing Stones.

the Contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case, during the progress of the work, any rubble or other masonry of a different class from that specified above, shall become necessary, and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class, and according to the direction of the Engineer.

12—WATERPROOFING.

In general waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than four inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of plies of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal-tar or natural asphalt, as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit, and melt at 100 degrees Fahrenheit, being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt of equal quality and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor to be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—DRAINS AND PUMPS.

Railroad to be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with sub-drains lying beneath the railroad and draining into the sewers.

Sub-drains.

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter, not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the jujnction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the subdrains or the floor of the railroad. Such sump must be watertight, with a capacity of not less than eight hundred (800) gallons.

14—STEEL AND IRON.

Open Hearth Process.

Steel shall be made in an open hearth furnace

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	1500000	1500000	20% in 2"
Fracture	Ult. Str. Silky.	Ult. Str. Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120°(d.=3+.)

The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half per centum (2½ per cent.) from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

WROUGHT IRON.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a yield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True To Pattern—Tests.

All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1-10) of an inch before rupture.

WORKMANSHIP.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1-16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be sub-punched and reamed, a punch of diameter three-sixteenths (3-16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1-16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Rollers and Bed-Plates.

Rollers shall be turned and roller beds and bed plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale, and receive one coat of approved paint as herein specified before leaving the shops. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead (Pb_3O_4). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk belting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahrenheit on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 6 gallons of boiled linseed oil, and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to Be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations, this shall be black carbon paint, but for the stations, and for 30 feet each way therefrom, see specifications for painting under the heading of the stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material, or adulterant, shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—DUCTS.

Quality—Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1-16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated, with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings. .

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To be Rodded.

After the ducts are laid and sufficient time is given to allow the mortar in beds to partially set they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor.

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—SEWERS.

In Accordance With Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grade, at the depths, with the connections and in the manner as called for by these specifications and as shown on the drawings.

Change of Location.

If during the progress of the work it is found in the opinion of the Engineer impracticable to construct according to the contract drawings any sewers, manholes or other appurtenances owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the railroad, shall have vertical sides and shall be not less than 6 inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides and shall be not less than 6 inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than 4 feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer and for the distance specified.

The excavation of trenches shall be fully completed at least 20 feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin the minimum excavation required in earth shall be to the lines of the smallest rectangle inclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall in all cases be not less than 6 inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation the trench shall be 6 inches larger than the greatest external dimension of the manhole or receiving basin or its foundation and shall have vertical sides to the surface.

Foundations to be Made Good.

Where the ground does not afford a sufficiently solid foundation the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth and all other irregularities in the bottom of the trench shall be filled up to the required level and form with such material and in such manner as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared and before laying any sewer the Contractor shall notify the Engineer, who will thereupon cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector and at no other time shall such construction work be done.

Trenches to be Kept Free from Water.

The trenches shall be kept entirely free from water while the foundation and masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunnelling.

When tunnelling for sewers shall be deemed advisable, it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway to be Kept Open.

At all times, the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Cross-walk, Sidewalk and Roadway to be Kept Clear.

Where any cross-walk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which, in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

The Contractor shall provide for the flow of all sewers, drains and water-courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be water-tight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying watermains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Where indicated on the plan, or, if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the Contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used if Ordered.

Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms or invert centres, which are to be removed when the concrete has become sufficiently set.

Invert to be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material, and shall be secured, as elsewhere provided in these specifications.

Defective Work.

If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, Etc.

In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers. Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

Six-inch pipes shall be not less than ⅝ of an inch thick; 8-inch pipes shall be not less than ¾ of an inch thick; 10-inch pipes shall be not less than ⅞ of an inch thick; 12-inch pipes shall be not less than 1 inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than 2 inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than 5 inches wide. Each collar must have an internal diameter of not less than ½ inch nor more than 1½ inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than 6 inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthen-ware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be 4 inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true, according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than 15 feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; it shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than 8 inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it, and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least 2½ feet of earth over them.

Pipes to be Kept Clear.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by special bluestone 8 inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar 1 inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than 12 inches below the flow-line grade of the sewer, except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required, it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically, and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required, as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer, shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds;
Street manhole cover, 135 to 150 pounds;
Sidewalk manhole head, 300 to 310 pounds;
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers, according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to Be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings, and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans, and shall commence not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan, and free from imperfections and properly coated with coal pitch varnish, shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe, unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick, as the case may be, in the manner described above, and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings, or other details to be furnished by the Contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer, and in the manner described elsewhere in these specifications.

Backfilling.

The backfilling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, except as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportion of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer the regrading and temporary paving over the same shall be done, and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench, as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, etc., to Be Kept Clean.

During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes To Be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even, so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All the pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

Forty-eight-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such moulding-sand or loam as will leave the surface clean and smooth.

Castings; How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings To Be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes To Be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting to be dipped after rust has set in.

Pitch.

The coal-tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To Be Inspected Before Dipping.

No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test will be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed, and the weight distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36 inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on block 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of

four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption To Be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interfered with or injured shall be restored under the directions of the Engineer without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop cocks, boxes, branches, curved pipe and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—PAVING.

Pavement to be Restored.

As soon as the work in any open excavation or trench made under this contract within a street shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled the Contractor shall proceed to restore the surface to a condition similar to and equally as good as that existing previous to the commencement of construction.

Other Pavements May be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement; or to make an arrangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the municipal officer in charge of street paving or any property owner desires to lay a pavement in any street or a sidewalk along any street affected by this contract different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission in its discretion may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed but not relaid and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—MAINTENANCE OF STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Surface and Subsurface Structures to be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains and all other surface or subsurface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or subsurface structure as mentioned above, or sidewalk, curb, area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice to be Given.

Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the rearrangement of subsurface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May do Work.

Whenever it becomes necessary to cut, move, change or reconstruct any such structures as named above or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor; such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and a half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction or alteration if performed by the City or owners shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time as shall be adjudged by the Commission may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures as above provided, or in case they shall consider it necessary or desirable to make any further alteration in, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—STATION.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the station at Pacific street and Dean street.

Station Plans Furnished.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar as far as possible to the general details of the stations as indicated on the above mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement, plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways shall be "Pink Georgia" or its equal.

All marble lintels shall be "Green Veined Vermont," or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the wainscot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enameled or face bricks shall be of an approved brick of the best quality. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used, and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and, if that fail, then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level, when acting as retaining walls, shall be built of brick or concrete with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the bottom by a pipe leading to the drains. Where directed openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2⅜ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick-facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the station sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways, and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms, shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete, or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors, and laid or set, as the Engineer may direct. In the designs of the stations all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the station must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning, and to permit if desired a thorough washing of all parts of the station and its approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the con-

crete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used, galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.

On terra cotta blocks, one (1) brown coat and two (2) finish coats.

On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles shall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish.

The floors of the station platforms, closets, toilet rooms, mezzanines and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement, and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or hereinafter specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth uniform hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalls a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundations. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality of Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landing shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the stations. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered from the sidewalks or from the parkways in the street.

Connecting Passageways.

The stations shall be located so that the station platforms shall extend past two cross streets. The platforms of the station shall be connected with each other by overhead passageways or mezzanines, to enable passengers to have access to both station platforms from either side of the street, as indicated on the plans.

Ticket Booths, Door and News Stands.

The ticket booths, doors and news stands shall be constructed of metal-covered wood with moldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass, plain or frosted, as indicated, and shall be enclosed with bronze grille. Plate glass coin shelves shall be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and news stands shall be of solid bronze metal without lacquer, and of weight, quality and design as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles, and the stairway railings and hood at the street surface, shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Sanitary Arrangements.

The station shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin, and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast-iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract.) All soil piping in connection therewith shall be provided as a part of the station construction and from thence into the sewer. Between the wall spaces and the sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass as approved by the Engineer. All work must conform with the City building and health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast-iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one 16-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Ventilation.

Ventilating openings shall be constructed in the roofs of the stations. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms; and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths, and news stands.

Pipes, Conduits, etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22—GENERAL CLAUSES.

It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work to be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper inspector.

In all work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., to be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, waterpipe, gaspipe, or other duly authorized sub-surface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the Rapid Transit Railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Condemned Materials to be Removed.

If the work or any part thereof, or any material found or brought on the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuild or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is in his opinion incompetent, unfaithful or disorderly such man shall be discharged from the work and shall not again be employed on it.

V.—Security to be Furnished by Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in due form executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of two hundred thousand dollars ($200,000). In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within thirty days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule—then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

When Contractor May Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may, from time to time, substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another contractor or contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten days after notice from the Commission so to do shall (unless the time be extended by the Commission), by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required. In addition to or in lieu of the sale above provided for the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss caused to others by the negligence, fault, or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the reuirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balances during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments, How To Be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been delivered in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for 90 per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be 90 per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor without any deduction except as herein otherwise provided. In case the Contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determinations of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And, if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of construction under this contract, the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller, the City shall pay to the Contractor in cash the amount remaining after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage To Be Filed With Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the 15th day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence That Labor and Materials Have Been Paid For.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after, the final completion of the works, that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Con-

tractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor, or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition, until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving no Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in connection with the work as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, Etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any sub-contractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any sub-contractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any sub-contractor or other person employed on the works.

Money Due the Contractor May Be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any sub-contractor or other person employed on the work, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or structures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any sub-contractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor or of any sub-contractor or of any other person in the course of any employment under the Contractor or any sub-contractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business, or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor, and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be prima facie evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Work During Construction.

All risk of loss or damage to the works or to the materials therefor, prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference by Injunctions, to Acquire Real Estate, Etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contrator shall enforce his rights against the City under this provision solely by claim for money, and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counter-claim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transportation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, Etc.

Commencement and Completion of Work.

Time is the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price to be Reduced for Delay.

In the event of delay in completion of the work beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due), there shall be deducted and retained by the City as liquidated damages for such delay (and not as a penalty) 1 per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission) or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move or dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to Be Extended in Case of Delay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct with diligence proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as such completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceeding involving this clause of the contract the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract Not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in nowise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall

not be reasonably probable that the works will be completed within the period above limited, then and in any such case the Commission, upon notice to the Contractor of not less than thirty days, may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City, by the Commission, in addition to every, or in substitution for any other, remedy which it may have by law or hereunder, may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk or otherwise, as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may, to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City, and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to Contractors, upon such terms as the Commission may deem proper; the same to provide, among other things, that the new Contractor shall allow for so much of construction as has been already completed, a reasonable amount to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Contractor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upon the bond, or with respect to the deposits of cash or securities made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor, and if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail, whether of construction or location of route, as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provisions in Case Commission Cease.

In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission, or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and, further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract, or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of section 13 of the Labor Law, it is further provided that if the provisions of the said section 13 are not complied with this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof, the same shall be deemed of no effect, and shall upon the application of either party be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has hereunto set his hand and seal the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By.....Chairman.

Attest:

.....Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney, being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared to me known, who, being by me first duly sworn, did depose and say: That he resided in , in the State of ; that he is of the , the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

CONTRACTOR'S BOND.

(*Fourth Avenue Route, Ashland Place and Fourth Avenue—Fulton Street to Sackett Street.*)

[11-A-1 and 11-E-1.]

Know all men by these presents, that of hereinafter called the Contractor and and hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City, in the penal sum of two hundred thousand dollars ($200,000) lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said two hundred thousand dollars ($200,000) and each of the said Sureties to be so held and bound only for a portion of said penal sum as follows:

The said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($).

In witness whereof, the Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these presents to be attested by the proper officers of each of them which is a corporation, this day of 1908.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a rapid transit railroad (including pipe galleries), known as the Fourth Avenue Route, in Ashland place and Fourth avenue and extending from Fulton street to Sackett street, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City and upon the faith thereof,

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond), that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defence upon this bond; that the Sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of Sureties must be added.

CONTRACTOR'S PROPOSAL.

[11-A-1 and 11-E-1.]

(*Fourth Avenue Route—Fourth Avenue and Ashland Place—Fulton Street to Sackett Street.*)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors.

Copy of Form of Contract.

Copy of Form of Bond.

Schedule of Securities, filled up only if the bidder desires to deposit securities in lieu of cash.

To the Public Service Commission for the First District:

1. The undersigned*

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

do hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract with The City of New York in the form therein referred to and to perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of

dollars ($).

DAMAGED PAGE(S)

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of
dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad; but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit values thereof, and are submitted in accordance with the invitation to contractors. In submitting this estimate, it is understood that the acceptance of this proposal by the Commission imposes upon it no obligations to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

RAILROAD CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per square yard	.....	.....	.....
With treated fabric, 3-ply, per square yard	.....	.....	.....
With treated fabric, 4-ply, per square yard	.....	.....	.....
With treated fabric, 5-ply, per square yard	.....	.....	.....
With treated fabric, 6-ply, per square yard	.....	.....	.....
Brick laid in asphalt mastic, per cubic yard	.....	.....	.....
Drains—			
15-inch vitrified pipe, per linear foot	.....	.....	.....
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch or 3-inch vitrified pipe, per linear foot	.....	.....	.....
16-inch cast iron pipe, per linear foot	.....	.....	.....
12-inch cast iron pipe, per linear foot	.....	.....	.....
10-inch cast iron pipe, per linear foot	.....	.....	.....
8-inch cast iron pipe, per linear foot	.....	.....	.....
6-inch cast iron pipe, per linear foot	.....	.....	.....
4-inch cast iron pipe, per linear foot	.....	.....	.....
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds	.....	.....	.....
Steel beams, per ton of 2,000 pounds	.....	.....	.....
Cast steel, per ton of 2,000 pounds	.....	.....	.....
Cast iron, per ton of 2,000 pounds	.....	.....	.....
Tunnel ducts	.....	.....	.....
Vault lights, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Wire mesh (expanded metal), per square yard	.....	.....	.....
Gas pipe handrail, per linear foot	.....	.....	.....
Total			$.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.
† Includes all specials and fittings.

Sewers Along Line and Off Line.

*Sewers.	Along Line. Lin. Ft.	Along Line. Price.	Along Line. Amount.	Off Line. Lin. Ft.	Off Line. Price.	Off Line. Amount.
8-inch cast-iron pipe	.....	$.....	$.....	.....	$.....	$.....
10-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
12-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
15-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
16-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
18-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
20-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
24-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
30-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
36-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
48-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
8-inch vitrified pipe	.....	.....	.....	.....	.....	.....
10-inch vitrified pipe	.....	.....	.....	.....	.....	.....
12-inch vitrified pipe	.....	.....	.....	.....	.....	.....
15-inch vitrified pipe	.....	.....	.....	.....	.....	.....
Egg-shaped Brick or Concrete—						
3 feet by 2 feet	.....	.....	.....	.....	.....	.....
3 feet 6 inches by 2 feet 4 inches	.....	.....	.....	.....	.....	.....
4 feet by 2 feet 8 inches	.....	.....	.....	.....	.....	.....
4 feet by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches by 2 feet 10 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 9 inches by 3 feet 2 inches	.....	.....	.....	.....	.....	.....
Circular—						
3 feet 9 inches	.....	.....	.....	.....	.....	.....
4 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches	.....	.....	.....	.....	.....	.....
4 feet 9 inches	.....	.....	.....	.....	.....	.....
5 feet	.....	.....	.....	.....	.....	.....
5 feet 3 inches	.....	.....	.....	.....	.....	.....
5 feet 6 inches	.....	.....	.....	.....	.....	.....
6 feet	.....	.....	.....	.....	.....	.....
6 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 6 inches	.....	.....	.....	.....	.....	.....
8 feet	.....	.....	.....	.....	.....	.....
9 feet	.....	.....	.....	.....	.....	.....
9 feet 3 inches	.....	.....	.....	.....	.....	.....
9 feet 6 inches	.....	.....	.....	.....	.....	.....
†Special Forms—						
6 feet by 8 feet 6 inches	.....	.....	.....	.....	.....	.....
7 feet by 13 feet 8 inches	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.
† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe. Lin. Ft.	Water Pipe. Price.	Water Pipe. Amount.	Gas Pipe. Lin. Ft.	Gas Pipe. Price.	Gas Pipe. Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20 inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot	.....	$.....	$.....
Street railway track (single track), per linear foot	.....	.....	.....
Elevated railway columns, each	.....	.....	.....
Total			$.....

Stations.

Classified Items.	Quantity.	Price.	Amount.
Tile—			
Straight tile, per square foot	.....	$.....	$.....
Curved tile, per square foot	.....	.....	.....
Ceramic tile, per square foot	.....	.....	.....
Ceramic tile (special pieces), each	.....	.....	.....
(Scratch coat to be included in the above items.)			
Marble—			
Platform wainscot, per square foot	.....	.....	.....
Lintels, Type "A," each	.....	.....	.....
Lintels, Type "B," each	.....	.....	.....
Lintels, toilet, each	.....	.....	.....
Lintels, special, each	.....	.....	.....
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station	.....	.....	.....
Back pressure valves, check and gate, each	.....	.....	.....
Toilet fixtures, complete, each	.....	.....	.....
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot	.....	.....	.....
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station	.....	.....	.....
Catch basins, including traps, pipes and sewer connections for same, each	.....	.....	.....
Fire service connections, including necessary pipe and valves, each	.....	.....	.....
Wall drains, complete, each	.....	.....	.....
Plastering—			
Flat suspended ceiling, complete, per square yard	.....	.....	.....
Arched suspended ceiling, complete, per square yard	.....	.....	.....
First, second and finish coats on brick or tile, per square yard	.....	.....	.....
Second and finish coats on concrete, per square yard	.....	.....	.....
Portland cement finish on concrete, per square yard	.....	.....	.....
Wire lath and steel furring, exclusive of plaster, per square yard	.....	.....	.....
Woodwork—			
Ticket booths, Type "A," each	.....	.....	.....
Ticket booths, Type "B," each	.....	.....	.....
Ticket booths, Type "C," each	.....	.....	.....
Ticket booths, Type "D," each	.....	.....	.....
Ticket booths, Type "F," each	.....	.....	.....
Ticket booths, special, each	.....	.....	.....
News stands, each	.....	.....	.....
Fixtures for masonry booths, each	.....	.....	.....
Fixtures for news stands, each	.....	.....	.....
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each	.....	.....	.....
Doors, Type "B," including hardware, each	.....	.....	.....

DAMAGED PAGE(S)

Classified Items.	Quantity.	Price.	Amount.
Doors, Type "C," including hardware, each	.....	.....	.....
Doors, Type "D," including hardware, each	.....	.....	.....
Doors, Type "E," including hardware, each	.....	.....	.....
Doors, special, including hardware, each	.....	.....	.....
Trim and doors for panel and switchboards, each	.....	.....	.....
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread	.....	.....	.....
Supported stairways, including safety treads, per linear foot tread	.....	.....	.....
Self-supporting landings, including safety treads, per square foot	.....	.....	.....
Supported landings, including safety treads, per square foot	.....	.....	.....
Reinforced concrete columns, per linear foot	.....	.....	.....
Reinforced concrete street landings, per cubic foot	.....	.....	.....
Cement finish on street landings, including safety treads, per square foot	.....	.....	.....
Cement stairway strings, per linear foot	.....	.....	.....
Reinforced concrete curbs, including cement finish, per cubic yard	.....	.....	.....
Cement face on sides of stairways, per linear foot	.....	.....	.....
Floors—			
Concrete floor finish, per square foot	.....	.....	.....
Concrete floor foundation, per cubic yard	.....	.....	.....
Sanitary cove, per linear foot	.....	.....	.....
Cement base, including sanitary cove, per linear foot	.....	.....	.....
Pipe troughs, including covers and frame, per linear foot	.....	.....	.....
Clean cut manholes, including covers and frames, each	.....	.....	.....
Mason Work—			
Face brick, per square foot	.....	.....	.....
Common brick and hollow tile, per cubic foot	.....	.....	.....
Vent flues, per linear foot	.....	.....	.....
Fireproof ceiling, per square foot	.....	.....	.....
Railings—			
Straight level railing, including posts, per linear foot	.....	.....	.....
Curved level railing, including posts, per linear foot	.....	.....	.....
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)			
Painting—			
Station painting, complete, per station	.....	.....	.....
Total			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Amount of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for water pipe, gas pipe and other surface and subsurface structures	.....
Amount of bid	$.....

4. If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the penalty of two hundred thousand dollars ($200,000) in the form hereto annexed with the following named sureties, viz.:*

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at room No. on the floor of the building No. in the Borough of in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this Contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

being duly sworn, says: I am*

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of "; if a corporation, say "the (President or other officer duly authorized) of the Company."

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this day of , 1908.

Schedule of Securities.

Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891, as amended), the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between William Bradley and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn of a four-track underground railroad or subway, the centre line of which shall begin at a point on Ashland place about five (5) feet east of the west line thereof and about forty (40) feet south of the south line of Fulton street; thence curving southeasterly under Ashland place to a point about six and one-half (6½) feet west of the centre line thereof and about one hundred and sixty-five (165) feet north of the north line of Lafayette avenue; thence southerly under Ashland place and parallel with the centre line thereof to a point about forty (40) feet south of the north line of Hanson place; thence curving southwesterly under Flatbush avenue, passing under the present rapid transit railroad in Flatbush avenue, and under Fourth avenue to a point

about twenty-two (22) feet east of the centre line of Fourth avenue, and about ninety (90) feet north of the centre line of Pacific street; thence continuing under Fourth avenue to a point about twelve (12) feet west of the centre line thereof and about one hundred and eleven (111) feet north of the centre line of Bergen street; thence curving southerly under Fourth avenue to a point on the centre line thereof at the north line of St. Marks place; thence southerly along the centre line of Fourth avenue to a point about sixty (60) feet north of the north building line of Sackett street..... $3,392,091 50

for the construction of pipe galleries in connection with the said railroad, for the sum of..... 208,135 00

Total..... $3,600,226 50

-and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the imit to the amount of Corporate Stock available for the said purposes shall be three illion three hundred and ninety-two thousand and ninety-one dollars and fifty cents $3,392,091.50) for railroad construction, and two hundred and eight thousand one undred and thirty-five dollars ($208,135) for pipe gallery construction; and be it urther

Resolved, That the Comptroller be and he is hereby authorized and directed to ssue Corporate Stock of The City of New York to the amount of five hundred thouand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) or pipe gallery construction, at such rate of interest as the Board of Commissioners f the Sinking Fund shall prescribe for the purposes mentioned in the communication f the Public Service Commission for the First District to this Board under date of lay 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alderen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond nd the Acting President of the Borough of Manhattan—16.

Contract.	Contract Awarded. For Railroad Construction.	Contract Awarded. For Pipe Gallery Construction.	Corporate Stock Requested. For Railroad Construction.	Corporate Stock Requested. For Pipe Gallery Construction.
o. 4—Section 11-A-2—Under Fourth avenue, from Sackett street to Tenth street—E. E. Smith Contracting Company, contractor.....	$2.283,553 30	$206,672 00	$500,000 00	$30,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, No. 154 NASSAU STREET.
NEW YORK, May 26, 1908.

o the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you r your consent as required by law a proposed contract for the construcon of Section 11-A-2 of the proposed Fourth Avenue Rapid Transit Railad in the Borough of Brooklyn, which section extends under Fourth Avenue from ackett street to Tenth street, and also for the construction of the pipe galleries nbraced within such section. The form of the proposed contract is for construction one, in accordance with the resolution adopted by your Board on the 4th day of me, 1907.

The route, of which the portion of the railroad to be constructed under this conact form a part, was adopted by the former Rapid Transit Board on the 1st day of me, 1905, and was thereafter consented to by the local authorities and by the ppellate Division of the Supreme Court in the Second Judicial Department. The ublic Service Commission for the First District pursuant to law prepared detailed ans and specifications for the construction of such Rapid Transit Railways and cluded in said plans provisions for galleries, ways, subways or tunnels, for gas or ater pipes, electric wires and other subsurface structures and conductors proper to placed underground (hereinafter in this communication referred to as pipe galleries) id determined to make a separate contract for the construction of a part of the said oute under Fourth avenue from Sackett street to Tenth street. The form of the id contract as duly adopted by the Commission was submitted to the Corporation ounsel, and the Commission was advised by him in a communication dated March), 1908, that it is correct in form, and such contract was approved by your Honorable oard on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice week for three successive weeks in four of the daily newspapers published in the ty of New York and also continuously from day to day in the City Record, which otices stated that said proposals would be opened at the office of the Commission Friday, the 8th day of May, 1908, at 12:00 o'clock noon. At the said time and ace the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
E. Smith Contracting Company.....	$2,283,553 30	$206,672 00	$2,490,225 30
illard Construction Company.....	2,456,155 02	280,383 00	2,736,538 02
Pearson & Son (Inc.).....	2,659,631 00	258,790 00	2,918,421 00
re Engineering and Contracting Company....	2,828,195 50	308,877 50	3,137,073 00
illiam Bradley.....	2,851,620 60	325,805 00	3,177,425 60
ashington Contracting Company.....	3,090,000 00	215,000 00	3,305,000 00

An informal proposal was also received from Westinghouse, Church, Kerr & ompany, which was based upon what is known as the master and servant type of ntract, and which differed so radically from the proposals requested by the invitaon to contractors that the Commission was advised by its Counsel that such proosal could not be considered.

The Commission having duly considered the said proposals did, on the 22d day May, 1908, accept the proposal of the lowest bidder, the E. E. Smith Contracting ompany, both for the railroad construction and the pipe galleries, and accordingly warded the contract for the construction of the same to the said E. E. Smith Conacting Company, subject to your consent, as required by law. A copy of said conact as so adopted and awarded is herewith transmitted.

The Commission is advised that the E. E. Smith Contracting Company has been gaged in important subway work in the City of Philadelphia and believes it comtent to perform this work.

The Commission therefore, pursuant to the provisions of Section 37 of the Rapid ansit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to e provisions of Section 45 of the Greater New York Charter, requests you to consent the said contract and to prescribe a limit to the amount of bonds available for the rposes of the said contract, and requests you to direct the comptroller to issue bonds the City of New York for the purpose of providing the necessary means for the nstruction of the railroad and the pipe galleries, and the Commission does hereby ake request for the authorization of corporate stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereunto affixed and attested by its Secretary, this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
[SEAL.] By W. R. WILLCOX, Chairman.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission did, on the 22nd day of May, 1908, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accept the proposal of E. E. Smith Constructing Company for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, known as Section 11-A-2, which extends under Fourth avenue from Sackett street to Tenth street, for the sum of two million two hundred eighty-three thousand five hundred fifty-three dollars and thirty cents ($2,283,553.30) and did also accept the proposal of the said E. E. Smith Contracting Company for the construction of pipe galleries embraced within the said section, for the sum of two hundred six thousand six hundred seventy-two dollars ($206,672); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of the City of New York to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of corporate stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on 1909, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Fourth Avenue Route, Brooklyn (Sackett Street to Tenth Street).

INVITATION TO CONTRACTORS.

(Fourth Avenue, Sackett Street to Tenth Street.)

The City of New York, acting by the Public Service Commission for the First District, by this advertisement invites proposals to construct that part of the proposed Fourth Avenue Subway between points on Fourth avenue 60 feet north of the north line of Sackett street and 10 feet north of the north line of Tenth street.

The general plan of construction calls for a four-track subsurface railroad, but the Contractor will not be required under the contract proposed to provide or lay tracks, ies or ballast. Two stations, one between Union street and President street, and one between Eighth street and Ninth street, will be constructed, and suitable crossovers, turnouts and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the stations are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets, or on the sidewalks adjacent to private property, as indicated on the plans.

The manner of construction shall be by excavation under cover, unless otherwise provided in the contract or directed by the Commission.

In the detailed plans for construction, provisions for pipe galleries along the line of the tunnel are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and stations to be built under this contract and note the present conditions along the line of the proposed railroad.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this invitation.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids of proposals will be received at the said office of the Commission, at No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at 12 o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission to enable it to determine upon what basis the proposal is made and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done, upon the basis of such quantities and unit value contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment; and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond in the penalty of one hundred and fifty thousand dollars. At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which savings banks may invest their funds and must be approved by the Commission. The Contractor's bond must be in the form annexed to the form of contract.

In addition, and as further security to the City, ten per cent. of each amount certified from time to time to be due to the contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, sub-

stitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission; but such substitution must be made within five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of failure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interest of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Rapid Transit Railroad (Fourth Avenue, Sackett Street to Tenth Street)" and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be sealed or deposited unless accompanied by a certified check drawn upon a National or State bank or trust company within The City of New York and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of twelve thousand five hundred dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
By WILLIAM R. WILCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT No. 11-A-2.

For the Construction of a Part of the Proposed Rapid Transit Railroad, Fourth Avenue, Brooklyn (Sackett Street to Tenth Street).

Approved as to form this day of , 1908.

.....Corporation Counsel, City of New York.

FOURTH AVENUE ROUTE.

CONTRACT No. 11-A-2.

Agreement, made this day of , 190 , between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and E. E. Smith Contracting Company of hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled "An Act to provide for Rapid Transit Railroads in Cities of Over One Million Inhabitants," and of the various acts amending the same, and of chapter 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for itself, his successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part, hereinafter described, of a rapid transit railway, with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on June 1, 1905, and approved by the Board of Estimate and Apportionment of The City of New York on July 14, 1905, by the Mayor on July 28, 1905, and consented to by the Appellate Division of the Supreme Court in the Second Judicial Department by an order entered on the 18th day of June, 1906.

The part to be constructed under this contract is described as follows, viz.:

A four track underground railroad or subway ,the centre line of which will begin at a point on the centre line of Fourth avenue 60 feet north of the north line of Sackett street, and running thence southerly along and under the centre line of Fourth avenue to a point 10 feet north of the north line of Tenth street.

The precise location of the tracks and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract and in the detailed drawings and plans hereinafter mentioned. Two stations are to be constructed under this contract as a part of the railroad, one between Union street and President street and one between Eighth street and Ninth street. The pipe galleries which are to be constructed as an independent item of the work, are also described in the said specifications, drawings and plans.

Statutes Incorporated Herein.

This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials to which or to whom the powers now belonging to the said Commission in respect to the location construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the party of the second part to this contract and its successors and assigns and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them," and the word "his" shall include "its," "her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906 and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York acording to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May Be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor, and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees, as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor, and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of such subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved of by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work To Be Done.

The Contractor shall at his own cost and expense, and in strict conformity with the specifications, hereinafter contained and called the specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the specifications or not, furnish all the materials and labor necessary and proper for the purpose, and, in a good, substantial and workmanlike manner, construct and provide the railroad, including therein the stations, sidetracks, switches, crossovers, and all other appurtenances as hereinafter specified, but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

Construction Includes Sewer and Other Incidentals.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, watermains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild watermains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of con-

struction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description including under-pinning wherever necessary, of all buildings of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Price for Railroad Construction.

The City shall pay, and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of two million two hundred and eighty-three thousand five hundred and fifty-three dollars and thirty cents ($2,283,553.30) subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries To Be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned, provisions for pipe galleries. The Contractor in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries with all appurtenances thereof along such of the above sections as is or are included in this contract.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of two hundred and six thousand six hundred and seventy-two dollars ($206,672) subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans; and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of This Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of pipe galleries.

Right of Commission to Amplify Plans, to Require Extra Work, etc.

The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right by notice to the Contractor to require additional work to be done or additional materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; provided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Extra Work, etc.

If additional work or materials shall be so required, then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then a reasonable deduction shall be made in the manner hereinafter provided from the amount to be paid to the Contractor for construction.

The location of the stations and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms a part, will constitute a great public work. All parts of the structure where exposed to public sight are, therefore, designated, and shall be constructed, with a view to the beauty of their appearance, as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be a deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, etc., To Be Used.

The Contractor is to furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as hereinbefore provided.

Contractor Has Examined Location Plans, etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer, or any officer, member or subordinate of the Commission, to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the assistants and superintendents under the Engineer, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any superintendent, assistant or other person bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability, or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to Be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additional specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the Commission, or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal from Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinafter provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid, or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to work done or materials supplied shall be binding upon the City, unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written notice addressed, if the Commission be the appellant, to the Contractor, or if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, and the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal the party receiving the same shall appoint an arbitrator, and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate an arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon each appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals, and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be a standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served, the Commission and the Contractor shall select a disinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said Committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator his place shall be filled in the same manner as that hereinbefore provided in the case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these periods last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor, and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance, appoint counsel to represent it or him, and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both.

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the com-

pletion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part thereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or, if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any such case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly Be Had.

It is expressly agreed that if any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way responsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract, any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action; and the requirement that there shall be adequate and comfortable stations. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

The plans referred to in the specifications hereinafter contained are twenty-four (24) in number, bear date the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission, and are designated as follows:

Two (2) drawings marked Route No. 11-A-2, Contract Drawings Nos. A-6 and A-7; three (3) drawings marked Contract Drawing Nos. B-101, B-104 and B-105; three (3) drawings marked Route No. 11-A-2, Contract Drawings Nos. B-11, B-12 and B-13; eight (8) drawings marked Contract Drawings Nos. C-116, C-117 and C-120 to C-125, both inclusive; and eight (8) drawings marked Contract Drawings Nos. C-200 to C-204, both inclusive, and C-206, C-213 and C-214.

Plans and Contract Drawings.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure; and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal as the contract drawings, but designated as supplementary drawings which are signed by the Engineer and marked as follows:

One (1) drawing marked Route Nos. 11-E-1, 11-A-1 and 2, Supplementary Drawing No. D-10.

Also four (4) drawings marked Route No. 11-A-2, Supplementary Drawing Nos. D-11 to D-14, both inclusive; one (1) drawing marked Route Nos. 11-A-2 and 3, Supplementary Drawing No. D-15; one (1) drawing marked Route Nos. 11-E-1, 11-A-1 and 2; Supplementary Drawing No. D-100; one (1) drawing marked Route Nos. 11-A-2, 3 and 4, Supplementary Drawing No. D-101.

These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The supplementary drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness; and the Contractor may, at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy, or error, but is to take every necessary or proper precaution to overcome the unforeseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications Not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in additions to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except that, upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

These specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar.
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps.
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and other Surface or Subsurface Structures.
(133) 21. Stations.
(149) 22. General Clauses.

DESCRIPTION OF THE WORK.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the rapid transit railroad known as Route No. 11, or the Fourth Avenue Route (Brooklyn), which is described in the routes and general plan adopted by the Board of Rapid Transit Railroad Commissioners on the 1st day of June, 1905.

It is to be a four-track underground railroad or subway (but this contract does not require the Contractor to provide or lay tracks, ties or ballast), the centre line of which will begin at the southerly end of Subsection 11-A-1, at a point on the centre line of Fourth avenue 60 feet north of the north line of Sackett street, and running thence southerly along and under Fourth avenue to a point 10 feet north of the north line of Tenth street.

Stations to Be Constructed.

Two stations are to be constructed; one between Union street and President street and one between Eighth street and Ninth street; also suitable turnouts and crossovers, all as indicated on the plans.

The above description of the railroad to be constructed under this contract is in general language, but the location of the various tracks, junctions, grades, etc., are set forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself, it will be necessary to construct or reconstruct certain sewers, together with house and other sewer connections, and to adjust, readjust and maintain railroads, pipes, electric subways, vaults, poles and wires and other surface, subsurface and overhead structures, and to relay the street pavement, both on streets occupied by, and on streets other than those occupied by, the route of the railroad.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for the installation of the necessary ventilating devices shall be built at the sides of the railroad and in connection therewith, or blow holes shall be constructed over the roof. These chambers or blow holes shall be generally of the form and dimensions as indicated on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers, or in the park spaces over the railroad. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from these points, suitable airways, ducts or flues shall be constructed. Drainage shall be provided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the railroad.

The chambers shall be built between every two stations, one on each side of the railroad, generally about midway between the stations. In streets having parkways the blow holes will be required in each block.

The devices for ventilating to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad and are not to be furnished under this contract.

Emergency Exits.

Where ventilating chambers and devices are not provided other than blow holes in the parkways, special emergency exits will be constructed at the sides of the railroad as indicated on the plans, one on each side of the railroad between stations with ladders leading to the street for use as exits in cases of emergency; also at the blow holes ladders shall be provided.

Pipe Galleries.

Pipe galleries or ways will also be constructed over, or on one or both sides of, the railroad as provided in this contract or indicated on the plans.

Pipes, etc., to Be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other subsurface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross streets, and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes.

Sewers Not in Galleries.

Sewers will not be placed in the galleries; but, if necessary, sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts, to receive electric wires or cables, will be placed generally as indicated on the contract drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith, will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in accordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc., and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections with Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part; and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done, and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shal be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—MANNER OF PROSECUTION.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All the work shall be prosecuted in the manner according to local conditions best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements the Contractor shall conduct his work in compliance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurrance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy, with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work, street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadways, except that cross roadways in which surface railroads are located shall be kept open to traffic for their full width, and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic, and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters nad low places where water might collect.

Excavation, Where to be Covered.

On Fourth avenue, excepting within the park areas, the street surface shall be kept substantially boarded over wherever and whenever excavation is in progress, and the work of covering the street surface must be prosecuted as much as possible during the night or at times of least traffic.

Open Trench Excavation, Where Permitted.

Within the park areas on Fourth avenue the Contractor will be permitted to prosecute his work in open trench excavation.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Parks and Parkways, Trees, etc.

In any park or parkway or where any grass plots or trees exist along the street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. Such trees as are found along the line of the route and between the necessary side lines of excavation are to be properly supported in place, if, in the judgment of the Engineer, such trees can thereby be saved. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree such as the Commissioner of Parks may require, and in such a position as he shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

In replanting trees and the replanting of grass plots the Contractor must be governed by the requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be as approved by such authorities.

Access to Buildings, etc.

No building shall, without the consent of the occupant, and after notice to the Engineer be deprived of means of access thereto; and where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Vaults Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

The Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion, on the several parts of the route, it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings, or bridging, in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously, and only at night if so directed by the Engineer and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

No materials of any nature shall be stored along the roadways of Fourth avenue. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Removal of Buildings, etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings.

3—EXCAVATION.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and, when required, hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete or masonry, also structural and other material to be used in the work, may be stored within the limits of the park areas; but the disposition of such material shall be at all times subject to the approval of the Engineer.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of, except as stated above, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that with the permission of the Commission may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary

tramways to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Carts to be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides to be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting, wherever possible and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in tranches, the same shall be removed by baling or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work; if, however, rock should be found or boulders, or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench, the right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more or masonry encountered within the line for excavation will be measured as rock excavation.

Storage of Explosives.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shall be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

4—BACKFILLING.

Quality of Material. How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other subsurface structure.

At such places as in the judgment of the Engineer backfilling cannot be effectively done as provided above, the material must be placed and compacted by flooding with water.

Subsurface Structures. Frozen Material Not Permitted.

Whenever pipes, sewers or other subsurface structures are met with the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn and the spaces left by the removal of such material carefully backfilled.

5—PILING AND TIMBERING.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions and laid in such manner as the special plans to be issued shall require and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations ordered by the Commission and not shown on the plans shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging or other temporary purposes shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—MASONRY.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar and shall be built of the forms and dimensions shown on the plans or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out within two days after being laid to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever before the final completion and acceptance of the work must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

7—CEMENT.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand to be Approved.

Before any cement is used the brand and name of the maker must receive the approval of the Engineer and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where manufactured or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which, by their records, show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds; and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area, of not less than one hundred and eighty (180) pounds; and at the end of twenty-eight (28) days, one (1) day in air and twenty-seven (27) days in water, of not less than two hundred and seventy-five (275) pounds.

Chemical Analysis.

Chemical analysis will be made from time to time, and cement furnished must show a reasonably uniform composition and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid ($S O_3$) nor more than 4 per cent. of magnesia (Mg O).

Soundness.

Tests for soundness will be made as follows:

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy (70) degrees Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks and one shall be exposed to an atmosphere of steam above boiling water in a loosely closed vessel for five (5) hours. These pats shall remain hard and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent. from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store at some convenient point in the vicinity of the work or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—MORTAR.

Cement and Sand. Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations; and for other classes of work, as directed by the Engineer.

9—CONCRETE.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound screened gravel or sound hard broken limestone, trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inch in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼ inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement, sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone when machine mixed; when mixed by hand one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing-machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall in all cases be well rammed before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work; and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete if so ordered.

Joints Cleaned.

In all cases of joints of old with new work the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed; or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms if made of wood, shall be made of boards with close-fitted, matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fulness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Surfaces Not To Be Painted.

The exposed faces of the concrete, excepting within station limts, will not be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—BRICK MASONRY.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brick-work, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—STONE MASONRY.

Footings for Columns.

In general columns will be set on a concrete base; in special cases, however, footing stones may be required.

Footing Stones. To Be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top where the column base plate is to rest shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case the contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case, during the progress of the work, any rubble or other masonry of a different class from that specified above, shall become necessary, and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class, and according to the direction of the Engineer.

12—WATERPROOFING.

In general, waterproofing of the structure will be limited to the roof and sidewalls at the station, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than four inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of plies of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick, and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit, and melt at 100 degrees Fahrenheit, being a grade in which distillate oils, distilled therefrom shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt of equal quality, and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used, together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes

Fabric for Waterproofing to Be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor to Be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—Drains and Pumps.

Railroad to Be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with sub-drains lying beneath the railroad and draining into the sewers.

Sub-Drains.

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the sub-drains or the floor of the railroad. Such sump must be watertight, with a capacity of not less than eight hundred (800) gallons.

14—Steel and Iron.

Open Hearth Process.

Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000± (Min.)
Yield point	55% Ult.	55% Ult.	35000± (Min.)
Elongation	1500000	1500000	20% in 2"
	Ult. Str.	Ult. Str.	
Fracture	Silky.	Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120° (d.=3+.)

The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the Inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half per centum (2½ per cent.) from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

Wrought Iron.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a yield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

Cast-Iron.

True to Pattern. Tests.

All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1/10) of an inch before rupture.

Workmanship.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be subpunched and reamed a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Subpunching and Drilling.

All material over seven-eighths (7/8) of an inch thick shall be drilled from the solid. Material over five-eighths (5/8) of an inch and not exceeding seven-eighths (7/8) of an inch in thickness shall be subpunched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eighths (5/8) of an inch in thickness to be used in main members shall be planed at least one-eighth (1/8) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be subpunched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (1/8) of an inch of flange angles.

Rollers and Bed Plates.

Rollers shall be turned and roller beds and bed plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer, and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analyses of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material, and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale, and receive one coat of approved paint as herein specified before leaving the shops. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead ($Pb_3 O_4$). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk belting cloth not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahrenheit on a current of hydrogen shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 6 gallons of boiled linseed oil and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations, this shall be black carbon paint, but for the stations, and for 30 feet each way therefrom, see specifications for painting under the heading of the Stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material or adulterant shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—DUCTS.

Quality. Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1-16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To be Rodded.

After the ducts are laid and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor.

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms, additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—SEWERS.

In Accordance With Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grade, at the depths, with the connections, and in the manner, as called for by these specifications and as shown on the drawings.

Change of Location.

If during the progress of the work it is found, in the opinion of the Engineer, impracticable to construct according to the contract drawings any sewers, manholes or other appurtenances owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts, both in earth and in rock, in streets along the route of the railroad, shall have vertical sides and shall be not less than 6 inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway, and in other streets the trenches shall have vertical sides, and shall be not less than 6 inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than 4 feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer, and for the distance specified.

The excavation of trenches shall be fully completed at least 20 feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting, the exposed end of the sewer shall, in all cases, be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle inclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than 6 inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation, the trench shall be 6 inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations to be Made Good.

Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will thereupon cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and at no other time shall such construction work be done.

Trenches to be Kept Free from Water.

The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunnelling.

When tunnelling for sewers shall be deemed advisable, it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway to be Kept Open.

At all times the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which, in the judgment of the Engineer, are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

The Contractor shall provide for the flow of all sewers, drains and water-courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be water-tight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than 6 inches interior diameter, with hubs moulded for house connections, and of sufficient length to project at least 4 inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than 20 feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than 15 feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than 13 feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than 6 inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point 13 feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Where indicated on the plan, or, if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the Contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used if Ordered.

Concrete sewers shall be reinforced with steel bars if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms of invert centres, which are to be removed when the concrete has become sufficiently set.

Invert to be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material and shall be secured, as elsewhere provided in these specifications

Defective Work.

If any voids or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

In so far as they will be applicable to sewers constructed of concrete the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

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Vitrified Pipe Sewers. Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers at any time previous to its being used.

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder and of even thickness throughout, according to the following schedule:

Six-inch pipes shall be not less than 5/8 of an inch thick; 8-inch pipes shall be not less than 3/4 of an inch thick; 10-inch pipes shall be not less than 7/8 of an inch thick; 12-inch pipes shall be not less than 1 inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than 2 inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than three feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick for the full width of the cradle and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared the pipe shall be laid true according to the line and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; each shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by special bluestone eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than twelve inches below the flow-line grade of the sewer, except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required, it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds; street manhole cover, 135 to 150 pounds; sidewalk manhole head, 300 to 310 pounds; sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan and free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings, or other details to be furnished by the Contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Backfilling.

The backfilling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer, the regrading and temporary paving over the same shall be done and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described, or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, etc., to be Kept Clean.

During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even, so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons, or ribs, shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All the pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

Forty-eight-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent. for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such moulding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles and other defects and imperfections.

Castings to be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting to be dipped after rust has set in.

Pitch.

The coal-tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To Be Inspected Before Dipping.

No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test will be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed, and the weight distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a water-tight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption To Be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—PAVING.

Pavement To Be Restored.

As soon as the work in any open excavation or trench made under this contract within a street (except as hereinafter provided) shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as that existing previous to the commencement of construction.

Other Pavements May Be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement; or to make an arrangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the municipal officer in charge of street paving, or any property owner, desires to lay a pavement in any street, or a sidewalk along any street, affected

by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission in its discretion may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed but not relaid, and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—Maintenance of Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.

Surface and Subsurface Structures To Be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains, and all other surface or subsurface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or subsurface structure as mentioned above, or sidewalk, curb, area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice To Be Given.

Notice is to be given by the Contractor to all companies and the proper city officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the rearrangement of subsurface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May Do Work.

Whenever it becomes necessary to cut, move, change or reconstruct any such structures as named above, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor; such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and a half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction, or alteration if performed by the City or owners, shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time as shall be adjudged by the Commission, may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures as above provided, or in case they shall consider it necessary or desirable to make any further alterations in, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—Stations.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the two stations at Union and President streets and at Eighth and Ninth streets.

Station Plans Furnished.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail, from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar, as far as possible, to the general details of the stations, as indicated on the above mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement, plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways, shall be "Pink Georgia," or its equal.

All marble lintels shall be "Green Veined Vermont," or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the waincot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enameled or face bricks shall be of an approved brick of the best quality. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices, all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer, and if that fail, then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and, as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level, when acting as retaining walls, shall be built of brick or concrete with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the botton by a pipe leading to the drains. Where directed, openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2⅜ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick-facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the stations sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways, and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms, shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete, or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors, and laid or set, as the Engineer may direct. In the designs of the stations all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the stations must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning, and to permit if desired a thorough washing of all parts of the stations and their approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the concrete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.

On terra cotta blocks, one (1) brown coat and two (2) finish coats.

On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles schall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish.

The floors of the station platforms, closets, toilet rooms, mezzanines and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and one-half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand, and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement, and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or after specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth uniform hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalls a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundations. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landings shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the stations. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered from the sidewalks or from the parkways in the street.

Connecting Passageways.

The stations shall be located so that the station platforms shall extend past two cross streets. Both platforms of stations shall be connected with each other by two (2) underground passageways, to enable passengers to have access to both station platforms from either side of the street, at both cross streets intercepted by the station.

Ticket Booths, Doors and Newsstands.

The ticket booths, doors and newsstands shall be constructed of metal covered wood with mouldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass plain or frosted as indicated and shall be inclosed with bronze grille. Plate glass coin shelves shal be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls, excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and newsstands shall be of solid bronze metal without lacquer, and of weight, quality and design as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles, and the stairway railings and hood at the street surface, shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Sanitary Arrangements.

Stations shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin, and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast-iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract.) All soil piping in connection therewith shall be provided as a part of the station construction and from thence into the sewer. Between the wall spaces and the sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass as approved by the Engineer. All work must conform with the City building and health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast-iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one 16-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Ventilation.

Ventilating openings shall be constructed in the roof of the station. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms, and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths and newsstands.

Pipes, Conduits, etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22.—General Clauses.

Placing and Protection.

It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work To Be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that, in the opinion of the Engineer, is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper inspector.

In all work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations, and before commencing manufacture, or resuming manufacture if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of Laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., to be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer o

local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the Rapid Transit Railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and municipal regulations regarding the transportation in and around the City and harbor of materials used in, or in connection with the work.

Condemned Materials to be Removed.

If the work or any part thereof, or any material found or brought on the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuild or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is, in his opinion, incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

V.—Security to be Furnished by the Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract, the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in due form executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of one hundred and fifty thousand dollars ($150,000). In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within thirty days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule—then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

When Contractor May Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may, from time to time, substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another Contractor or Contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten days after notice from the Commission so to do shall (unless the time be extended by the Commission) by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss caused to others by the negligence, fault or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balances during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments, How to Be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been delivered in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for 90 per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be 90 per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor, without any deduction except as herein otherwise provided. In case the Contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determinations of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of construction under this contract the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller the City shall pay to the Contractor in cash the amount remaining, after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claim for Damage. Statements of Damage to Be Filed with Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the 15th day of the month succeeding that in which any such damage shall have been sustained the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and unless such statement shall be made as thus required his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence That Labor and Materials Have Been Paid For.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after, the final completion of the works that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Contractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor, or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law, then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to Be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in con-

nection with the work as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, Etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any sub-contractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any sub-contractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any sub-contractor or other person employed on the works.

Money Due the Contractor May Be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any sub-contractor or other person employed on the work, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a Court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or structures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any sub-contractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor of any sub-contractor or of any other person in the course of any employment under the Contractor or any sub-contractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business, or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner or tenant of each parcel or his or their duly authorized representative shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be prima facie evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract, by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor, by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Works During Construction.

All risk of loss or damage to the works or to the materials therefor, prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference by Injunctions, to Acquire Real Estate, etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contractor shall enforce his rights against the City under this provision solely by claim for money, and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense, or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counter-claim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expense and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transprtation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, etc.

Commencement and Completion of Work.

Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price to be Reduced for Delay.

In the event of delay in completion of the works beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due), there shall be deducted and retained by the City as liquidated damages for such delay (and not as a penalty) one per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceedings involving this clause of the contract, the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract Not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall not be reasonably probable that the works will be completed within the period above limited, then and in any such case the Commission upon notice to the Contractor of not less than thirty days may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City by the Commission in addition to every, or in substitution for any other, remedy which it may have by law or hereunder, may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk or otherwise as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to Contractors, upon such terms as the Commission may deem proper; the same to provide among other things that the new Contractor shall allow for so much of construction as has been already completed, a reasonable amount to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Contractor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upon the bond, or with respect to the deposits of cash or securities made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring any suit or proceeding for specific performance of for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—Miscellaneous Provisions.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and, if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provisions in Case Commission Cease.

In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of section 13 of the Labor Law it is further provided that if the provisions of the said section are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect, and shall upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers, the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By....., Chairman.

Attest:

....., Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary, of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came

to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared , to me known, who, being by me first duly sworn, did depose and say: That he resided in , in the State of ; that he is of the the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the board of directors of said company, and that he signed his name thereto by like authority.

Contractor's Bond.

Fourth Avenue Route, Sackett Street to Tenth Street.

[11-A-2.]

Know all men by these presents, that

of , hereinafter called the Contractor, and and hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City, in the penal sum of one hundred and fifty thousand dollars ($150,000), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said one hundred and fifty thousand dollars ($150,000), and each of the said Sureties to be so held and bound only for a portion of said penal sum as follows:

The said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($).

In witness whereof, the Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these presents to be attested by the proper officers of each of them, which is a corporation, this day of , 1908.

Whereas, The City, by the Public Service Commission for the First District (hereinafter called the Commission), is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a rapid transit railroad (including pipe galleries), known as the Fourth Avenue Route, in Fourth avenue and extending from Sackett street to Tenth street, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract: and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, but this bond shall be given to the City, and upon the faith thereof,

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defence upon this bond; that the Sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

Contractor's Proposal.

[11-A-2.]

(Fourth Avenue—Sackett to Tenth Street.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of invitation to contractors.

Copy of form of contract.

Copy of form of bond.

Schedule of securities, filled up only if the bidder desires to deposit securities in lieu of cash.

To the Public Service Commission for the First District:

1. The undersigned*

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

do hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract with The City of New York in the form therein referred to and to perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad, but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit value thereof, and are submitted in accordance with the invitation to contractors. In submitting this estimate it is understood that the acceptance of this proposal by the Commission imposes upon it no obligation to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

Railroad Construction.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....

Classified Items.	Quantity.	Price.	Amount.
Waterproofing—			
With treated fabric, 2-ply, per square yard			
With treated fabric, 3-ply, per square yard			
With treated fabric, 4-ply, per square yard			
With treated fabric, 5-ply, per square yard			
With treated fabric, 6-ply, per square yard			
Brick laid in asphalt mastic, per cubic yard			
†Drains—			
15-inch vitrified pipe, per linear foot			
12-inch vitrified pipe, per linear foot			
10-inch vitrified pipe, per linear foot			
8-inch vitrified pipe, per linear foot			
6-inch vitrified pipe, per linear foot			
4-inch or 3-inch vitrified pipe, per linear foot			
16-inch cast iron pipe, per linear foot			
12-inch cast iron pipe, per linear foot			
10-inch cast iron pipe, per linear foot			
8-inch cast iron pipe, per linear foot			
6-inch cast iron pipe, per linear foot			
4-inch cast iron pipe, per linear foot			
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds			
Steel beams, per ton of 2,000 pounds			
Cast steel, per ton of 2,000 pounds			
Cast iron, per ton of 2,000 pounds			
Tunnel ducts			
Vault lights, per square yard			
Gratings, per square yard			
Wire mesh (expanded metal), per square yard			
Gas pipe handrail, per linear foot			
Total			$

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.
† Includes all specials and fittings.

Sewers Along Line and Off Line.

*Sewers.	Along Line.			Off Line.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
6-inch cast-iron pipe		$	$		$	$
8-inch cast-iron pipe						
10-inch cast-iron pipe						
12-inch cast-iron pipe						
14-inch cast-iron pipe						
16-inch cast-iron pipe						
18-inch cast-iron pipe						
20-inch cast-iron pipe						
24-inch cast-iron pipe						
30-inch cast-iron pipe						
36-inch cast-iron pipe						
42-inch cast-iron pipe						
48-inch cast-iron pipe						
54-inch cast-iron pipe						
6-inch vitrified pipe						
8-inch vitrified pipe						
12-inch vitrified pipe						
15-inch vitrified pipe						
18-inch vitrified pipe						
24-inch vitrified pipe						
Egg-shaped Brick or Concrete—						
3 feet by 2 feet						
3 feet 6 inches by 2 feet 4 inches.						
4 feet by 2 feet 8 inches						
4 feet by 3 feet						
4 feet 3 inches by 2 feet 10 inches						
4 feet 6 inches by 3 feet						
4 feet 9 inches by 3 feet 2 inches.						
Circular—						
3 feet 9 inches						
4 feet						
4 feet 3 inches						
4 feet 6 inches						
4 feet 9 inches						
5 feet						
5 feet 3 inches						
5 feet 6 inches						
6 fect						
6 feet 3 inches						
7 feet 3 inches						
7 feet 6 inches						
8 feet						
9 feet						
9 feet 3 inches						
9 feet 6 inches						
†Special Forms—						
6 feet by 8 feet 6 inches						
7 feet by 13 feet 8 inches						
Total			$			$

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.
† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas		$	$		$	$
4-inch water or gas						
6-inch water or gas						
8-inch water or gas						
10-inch water or gas						
12-inch high-pressure water						
16-inch water or gas						
16-inch high-pressure water						
18-inch water or gas						
20-inch water or gas						
20 inch high-pressure water						
24-inch water or gas						
30-inch water or gas						
36-inch water or gas						
48-inch water						
Total			$			$

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot		$	$
Street railway track (single track), per linear foot			
Elevated railway columns, each			
Total			$

Stations.

Classified Items.	Quantity.	Price.	Amount.
Tile—			
Straight tile, per square foot		$	$
Curved tile, per square foot			
Ceramic tile, per square foot			
Ceramic tile (special pieces), each (Scratch coat to be included in the above items.)			
Marble—			
Platform waincot, per square foot			
Lintels, Type "A," each			
Lintels, Type "B," each			
Lintels, toilet, each			
Lintels, special, each			
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station			
Back pressure valves, check and gate, each			
Toilet fixtures, complete, each			
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot			
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station			
Catch basins, including traps, pipes and sewer connections for same, each			
Fire service connections, including necessary pipe and valves, each			
Wall drains, complete, each			
Plastering—			
Flat suspended ceiling, complete, per square yard			
Arched suspended ceiling, complete, per square yard			
First, second and finish coats on brick or tile, per square yard			
Second and finish coats on concrete, per square yard			
Portland cement finish on concrete, per square yard			
Wire lath and steel furring, exclusive of plaster, per square yard			
Woodwork—			
Ticket booths, Type "A," each			
Ticket booths, Type "B," each			
Ticket booths, Type "C," each			
Ticket booths, Type "D," each			
Ticket booths, Type "F," each			
Ticket booths, special, each			
News stands, each			
Fixtures for masonry booths, each			
Fixtures for news stands, each			
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each			
Doors, Type "B," including hardware, each			
Doors, Type "C," including hardware, each			
Doors, Type "D," including hardware, each			
Doors, Type "E," including hardware, each			
Doors, special, including hardware, each			
Trim and doors for panel and switchboards, each			
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread			
Supported stairways, including safety treads, per linear foot tread			
Self-supporting landings, including safety treads, per square foot			
Supported landings, including safety treads, per square foot			
Reinforced concrete columns, per linear foot			
Reinforced concrete street landings, per cubic foot			
Cement finish on street landings, including safety treads, per square foot			
Cement stairway strings, per linear foot			
Reinforced concrete curbs, including cement finish, per cubic yard			
Cement face on sides of stairways, per linear foot			
Floors—			
Concrete floor finish, per square foot			
Concrete floor foundation, per cubic yard			
Sanitary cove, per linear foot			
Cement base, including sanitary cove, per linear foot			
Pipe troughs, including covers and frame, per linear foot			
Clean cut manholes, including covers and frames, each			
Mason Work—			
Face brick, per square foot			
Common brick and hollow tile, per cubic foot			
Vent flues, per linear foot			
Fireproof ceiling, per square foot			
Railings—			
Straight level railing, including posts, per linear foot			
Curved level railing, including posts, per linear foot			

Classified Items.	Quantity.	Price.	Amount.
Railings—			
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)			
Painting—			
Station painting, complete, per station	.....	.....	.....
Total			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Amount of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for water pipe, gas pipe and other surface and subsurface structures	.....
Amount of bid	$.....

4. If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract *a bond in the penalty of one hundred and fifty thousand dollars* ($150,000) *in the form hereto annexed with the following named Sureties, viz.:**

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at Room No. on the floor of the building No. in the Borough of in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500).

If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
being duly sworn, says: I am* the proposing

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say: "a member of the firm of "; if a corporation, say "the (President or other officer duly authorized) of the Company."

contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this day of , 1908.

Schedule of Securities.

Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891, as amended), the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between E. E. Smith Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn, of a four-track underground railroad or subway, the centre line of which will begin at a point on the centre line of Fourth avenue, 60 feet north of the north line of Sackett street, and running thence southerly along and under the centre line of Fourth avenue to a point 10 feet north of the north line of Tenth street	$2,283,553 30
For the construction of pipe galleries in connection with the said railroad, for the sum of	206,672 00
Total	$2,490,225 30

—and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of Corporate Stock available for the said purposes shall be two million two hundred and eighty-three thousand five hundred and fifty-three dollars and thirty cents ($2,283,553.30) for railroad construction, and two hundred and six thousand six hundred and seventy-two dollars ($206,672) for pipe gallery construction; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue Corporate Stock of The City of New York to the amount of five hundred thousand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) for pipe gallery construction, at such rate of interest as the Board of Commissioners of the Sinking Fund shall prescribe for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board under date of May 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

Contract.	Contract Awarded. For Railroad Construction.	Contract Awarded. For Pipe Gallery Construction.	Corporate Stock Requested. For Railroad Construction.	Corporate Stock Requested. For Pipe Gallery Construction.
No. 5—Section 11-A-3—Under Fourth avenue, from Tenth street to Twenty-seventh street — Tidewater Building Company and Thomas B. Bryson, contractors	$1,945,640 50	$251,076 00	$500,000 00	$30,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, NO. 154 NASSAU STREET,
NEW YORK, May 26, 1908.

To the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you for your consent as required by law a proposed contract for the construction of section 11-A-3 of the proposed Fourth Avenue Rapid Transit Railroad, which section extends under Fourth avenue, from Tenth street to Twenty-seventh street, and also for the construction of the pipe galleries embraced within such section.

The form of the proposed contract is for construction alone, in accordance with the resolution adopted by your Board on the 4th day of June, 1907.

The route, of which the portion of the railroad to be constructed under this contract forms a part, was adopted by the former Rapid Transit Board on the 1st day of June, 1905, and was thereafter consented to by the local authorities and by the Appellate Division of the Supreme Court in the Second Judicial Department. The Public Service Commission for the First District pursuant to law prepared detailed plans and specifications for the construction of such rapid transit railway and included in said plans provisions for galleries, ways, subways or tunnels, for gas or water pipes, electric wires and other subsurface structures and conductors proper to be placed underground (hereinafter in this communication referred to as pipe galleries) and determined to make a separate contract for the construction of a part of the said route under Fourth avenue, from Tenth street to Twenty-seventh street. The form of the said contract as duly adopted by the Commission was submitted to the Corporation Counsel, and the Commission was advised by him in a communication dated March 30, 1908, that it is correct in form, and such contract was approved by your Honorable Board on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice a week for three successive weeks in four of the daily newspapers published in The City of New York and also continuously from day to day in the CITY RECORD, which notices stated that said proposals would be opened at the office of the Commission on Friday, the 8th day of May, 1908, at 12 o'clock noon. At the same time and place the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
James Graham	$1,413,635 00	.....	.....
Tidewater Building Company and Thomas B. Bryson	1,945,640 50	$251,076 00	$2,196,716 50
E. E. Smith Contracting Company	2,218,566 00	303,512 00	2,522,078 00
S. Pearson & Son (Inc.)	2,508,031 00	327,229 00	2,835,260 00
Millard Construction Company	2,595,503 02	415,180 00	3,010,683 02
Gore Engineering and Contracting Company	2,837,908 15	414,969 50	3,252,877 65
William Bradley	3,057,764 10	428,715 00	3,486,479 10
The Phoenix Construction Company	3,128,000 00	481,000 00	3,609,000 00

An informal proposal was also received from Westinghouse, Church, Kerr & Co., which was based upon what is known as the master and servant type of contract, and which differed so radically from the proposals requested by the invitation to contractors that the Commission was advised by its counsel that such proposal could not be considered. The lowest bid for railroad construction received, that of James P. Graham, was not accompanied by a bid for the construction of the pipe galleries as was required by the invitation, and on the advice of the counsel to the Commission this bid was rejected as defective.

The Commission having duly considered the said proposals did, on the 22d day of May, 1908, accept the proposal of Tidewater Building Company and Thomas B. Bryson, both for railroad construction and for pipe galleries, and accordingly awarded the contract for the construction of the same to the said Tidewater Building Company and Thomas B. Bryson, subject to your consent as required by law. A copy of said contract as so adopted and awarded is herewith transmitted.

The Commission is informed that the said Tidewater Building Company and Thomas B. Bryson have had extensive experience in building operations and believes them competent to perform this work.

The Commission therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, requests your Honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and requests you to direct the Comptroller to issue bond of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and the Commission does hereby make request for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems necessary for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereto affixed and attested by its Secretary, this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
By W. R. WILLCOX, Chairman.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission did, on the 22d day of May, 1908, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accept the proposal of Tidewater Building Company and Thomas B. Bryson for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, known as Section 11-A-3, which extends under Fourth avenue, from Tenth street to Twenty-seventh street, for the sum of one million nine hundred and forty-five thousand six hundred and forty dollars and fifty cents ($1,945,640.50), and did also accept the proposal of the said Tidewater Building Company and Thomas B. Bryson for the construction of pipe galleries embraced within the said section, for the sum of two hundred and fifty-one thousand and seventy-six dollars ($251.076); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of The City of New York to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on , 1908, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed by hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Fourth Avenue Route, Brooklyn (Tenth Street to Twenty-seventh Street).

INVITATION TO CONTRACTORS.

(*Fourth Avenue, from Tenth Street to Twenty-seventh Street.*)

The City of New York, acting by the Public Service Commission for the First District, by this advertisement, invites proposals to construct that part of the proposed Fourth Avenue Subway, between points on Fourth avenue, 10 feet north of the north line of Tenth street and 15 feet south of the south line of Twenty-seventh street.

The general plan of construction calls for a four-track subsurface railroad, but the Contractor will not be required under the contract proposed to provide or lay tracks, ties or ballast. Two stations, one between Prospect street and Seventeenth street and one between Twenty-fifth street and Twenty-sixth street, will be constructed; and suitable crossovers, turnouts and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the stations are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets, or on the sidewalks adjacent to private property, as indicated on the plans.

The manner of construction shall be by excavation in open trench, unless otherwise provided in the contract or directed by the Commission.

In the detailed plans for construction, provisions for pipe galleries along the line of the railroad are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and stations to be built under this contract and note the present conditions along the line of the proposed railroad.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this invitation.

Partial payments to the contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids or proposals will be received at the said office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at twelve o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission, to enable it to determine upon what basis the proposal is made and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done upon the basis of such quantities and unit values contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment; and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond in the penalty of one hundred and fifty thousand dollars. At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which savings banks may invest their funds and must be approved by the Commission. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten per cent. of each amount certified from time to time to be due to the Contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, substitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission; but such substitution must be made within five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of failure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another contract with such, if any, of the original bidders as, in the opinion of the Commission, it will be to the best interest of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be inclosed in a sealed envelope indorsed "Proposal for Constructing Rapid Transit Railroad (Fourth Avenue, Tenth Street to Twenty-seventh Street)," and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a certified check drawn upon a National or State bank or trust company within The City of New York and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of twelve thousand five hundred dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.
By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT No. 11-A-3.

For the Construction of a Part of the Proposed Rapid Transit Railroad, Fourth Avenue (Brooklyn) Route (Tenth Street to Twenty-seventh Street).

Approved as to form this day of , 1908.

.... .Corporation Counsel, City of New York.

FOURTH AVENUE ROUTE.

CONTRACT No. 11-A-3.

Agreement, made this day of , 190 , between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Tidewater Building Company and Thomas B. Bryson, of the State and City of New York, hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City, by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled "An act to provide for rapid transit railways in cities of over one million inhabitants," and of the various acts amending the same, and of chapter 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for themselves, their and each of their executors, administrators, successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part, hereinafter described, of a rapid transit railway, with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York June 1, 1905, and approved by the Board of Estimate and Apportionment of The City of New York on July 14, 1905, by the Mayor on July 28, 1905, and consented to by the Appellate Division of the Supreme Court in the Second Judicial Department by an order entered on the 18th day of June, 1906.

The part to be constructed under this contract is described as follows, viz.:

A four-track underground railroad or subway, the centre line of which will begin at a point on the centre line of Fourth avenue 10 feet north of the northerly line of Tenth street, and running thence southerly along and under the centre line of Fourth avenue to a point 15 feet south of the south line of Twenty-seventh street.

The precise location of the tracks and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract and in the detailed drawings and plans hereinafter mentioned. Two stations are to be constructed under this contract as a part of the railroad, one between Prospect street and Seventeenth street and one between Twenty-fifth street and Twenty-sixth street. The pipe galleries which are to be constructed, as an independent item of the work, are also described in the said specifications, drawings and plans.

Statutes Incorporated Herein.

This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the parties of the second part to this contract and their executors, administrators, successors and assigns, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "its," "her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May Be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects as if he and they were employees of the Contractor, and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor, and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of such subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved of by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work To Be Done.

The Contractor shall at his own cost and expense, and in strict conformity with the specifications hereinafter contained and called the Specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the specifications or not, furnish all the materials and labor necessary and proper for the purpose and, in a good, substantial and workmanlike manner, construct and provide the railroad, including therein the stations, side-tracks, switches, crossovers and all other appurtenances as hereinafter specified, but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

Construction Includes Sewer and Other Incidentals.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults and other subsurface structures, together with their necessary connections, and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Price for Railroad Construction.

The City shall pay and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of one million nine hundred and forty-five thousand six hundred and forty dollars and fifty cents ($1,945,640.50), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries To Be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned, provisions for pipe galleries. The Contractor in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries with all appurtenances thereof.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of two hundred and fifty-one thousand and seventy-six dollars ($251,076), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans, and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of This Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of pipe galleries.

Right of Commission to Amplify Plans, to Require Extra Work, Etc.

The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right, by notice to the Contractor, to require additional work to be done or additional materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; pro-

vided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Extra Work, Etc.

If additional work or materials shall be so required, then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then the reasonable deduction shall be made in the manner hereinafter provided from the amount to be paid to the Contractor for construction.

The location of the stations and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms a part, will constitute a great public work. All parts of the structure where exposed to public sight are, therefore, designed and shall be constructed with a view to the beauty of their appearance, as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be a deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, etc., to be Used.

The Contractor is to furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as hereinbefore provided.

Contractor Has Examined Location, Plans, etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract, or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the assistants and superintendents under the Engineer, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any superintendent, assistant or other person bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any Engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additional specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the commission, or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal from Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinafter provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to work done or materials supplied shall be binding upon the City unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written notice addressed, if the Commission be the appellant, to the Contractor, or, if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal, the party receiving the same shall appoint an arbitrator, and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate an arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon each appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position, within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be a standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served the Commission and the Contractor shall select a distinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator, his place shall be filled in the same manner as that hereinbefore provided in the case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these periods last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance, appoint counsel to represent it or him, and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision, the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both.

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the completion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor, or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part thereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any such case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly Be Had.

It is expressly agreed, however, that if in any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way responsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action; and the requirement that there shall be adequate and comfortable stations. All the clauses of the specifications, and all the parts of the contract drawings are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

The plans referred to in the specifications hereinafter contained are twenty-three (23) in number, bear date of the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission and are designated as follows: Two (2) drawings marked Route No. 11-A-3, Contract Drawing Nos. A-8 and A-9; three (3) drawings marked Contract Drawing Nos. B-101, B-104 and B-105; four (4) drawings marked Route No. 11-A-3; Contract Drawings Nos. B-14, B-15, B-16 and B-17; six (6) drawings marked Contract Drawing Nos. C-116 and C-120 to C-124, both inclusive, and eight (8) drawings marked Contract Drawing Nos. C-200 to C-204, both inclusive, and C-206, C-213 and C-214.

Plans and Contract Drawings.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure; and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal as the contract drawings, but designated as supplementary drawings, which are signed by the Engineer and marked as follows: One (1) drawing marked Route Nos. 11-A-2 and 3, Supplementary Drawing No. D-15; six (6) drawings marked Route No. 11-A-3, Supplementary Drawing Nos. D-16 to D-21, both inclusive; one (1) drawing marked Route Nos. 11-A-3 and 4, Supplementary Drawing No. D-22; and one (1) drawing marked Route Nos. 11-A-2, 3 and 4, Supplementary Drawing No. D-101. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The supplementary drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness; and the Contractor may at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy, or error, but is to take every necessary or proper precaution to overcome the unforeseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except that, upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this Contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

These specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar.
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.
(133) 21. Stations.
(149) 22. General Clauses.

1—Description of the Work.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the rapid transit railroad known as Route No. 11, or the Fourth Avenue Route (Brooklyn), which is described in the routes and general plan adopted by the Board of Rapid Transit Railroad Commissioners on the 1st day of June, 1905.

It is to be a four-track underground railroad or subway (but this contract does not require the Contractor to provide or lay tracks, ties or ballast), the centre line of which will begin at the southerly end of Subsection 11-A-2, at a point on the centre line of Fourth avenue 10 feet north of the north line of Tenth street, and running thence southerly along and under Fourth avenue to a point 15 feet south of the south line of Twenty-seventh street.

Stations to be Constructed.

Two stations are to be constructed; one between Prospect avenue and Seventeenth street and one between Twenty-fifth and Twenty-sixth streets; also suitable turnouts and crossovers, all as are indicated on the plans.

The above description of the railroad to be constructed under this contract is in general language, but the location of the various tracks, junctions, grades, etc., are set forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself, it will be necessary to construct or reconstruct certain sewers, together with house and other sewer connections, and to adjust, readjust and maintain railroads, pipes, electric subways, vaults, poles and wires and other surface, subsurface and overhead structures, and to relay the street pavement, both on streets occupied by, and on streets other than those occupied by, the route of the railroad.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for the installation of the necessary ventilating devices shall be built at the sides of the railroad and in connection therewith, or blow holes shall be constructed over the roof. These chambers or blow holes shall be generally of the form and dimensions as indicated on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers, or in the park spaces over the railroad. If, owing to local conditions, it becomes necesary to lead the air to gratings or other outlets away from these points, suitable air-ways, ducts or flues shall be constructed Drainage shall be provided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the railroad.

The chambers will be built between every two stations, one on each side of the railroad, generally about midway between the stations. In streets having parkways the blow holes may be required in each block.

The devices for ventilation to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad and are not to be furnished under this contract.

Emergency Exits.

Where ventilating chambers and devices are not provided other than blow holes in the parkways, special emergency exits will be constructed at the sides of the railroad as indicated on the plans, one on each side of the railroad between stations with ladders leading to the street for use as exits in cases of emergency; also at the blow holes ladders shall be provided.

Pipe Galleries.

Pipe galleries or ways will also be constructed over or on one or both sides of the railroad as provided in this contract or indicated on the plans.

Pipes, etc., to be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other subsurface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross streets, and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes

Sewers Not in Galleries.

Sewers will not be placed in the galleries, but, if necessary, sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts, to receive electric wires or cables, will be placed generally as indicated on the contract drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith, will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in accordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc., and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections with Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part, and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done, and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon, and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer, and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—Manner of Prosecution.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to Be Filed With Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements the Contractor shall conduct his work in compliance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy, with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work, street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadways, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width, and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic; and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Open Trench Excavation, Where Permitted.

The Contractor will be permitted to prosecute his work generally in open trench excavation on Fourth avenue; but he must at all times keep at least one side of the avenue, between the Park curbs and the sidewalk curbs, open for public traffic.

Within the Park areas on Fourth avenue the Contractor will be permitted to prosecute his work in open trench excavation.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Parks and Parkways, Trees, Etc.

In any park or parkway or where any grass plots or trees exist along the street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. Such trees as are found along the line of the route and between the necessary side lines of excavation are to be properly supported in place, if in the judgment of the Engineer such trees can thereby be saved. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree such as the Commissioner of Parks may require and in such a position as he shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

In replanting trees and the replanting of grass plots the Contractor must be governed by the requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be as approved by such authorities.

Access to Buildings, Etc.

No building shall, without the consent of the occupant, and after notice to the Engineer be deprived of means of access thereto; and, where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Vaults Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, Etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

The Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion, on the several parts of the route, it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings, or bridging, in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously, and only at night if so directed by the Engineer and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

No materials of any nature shall be stored along the sidewalks of Fourth avenue. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Removal of Buildings, Etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings.

3—EXCAVATION.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored within the limits of the park areas; but the disposition of such material shall be at all times subject to the approval of the Engineer.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of, except as stated above, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that with the permission of the Commission may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary tramways to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission

Carts To Be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides To Be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting wherever possible and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work: if, however, rock should be found or boulders, or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more of masonry encountered within the line for excavation will be measured as rock excavation.

Storage of Explosives.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shall be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

4—Backfilling.

Quality of Material. How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other subsurface structure.

At such places as in the judgment of the Engineer backfilling can not be effectively done as provided above, the material must be placed and compacted by flooding with water.

Subsurface Structures. Frozen Material Not Permitted.

Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled.

5—Piling and Timbering.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If, in the judgment of the Engineer, special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions and laid in such manner as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations, ordered by the Commission and not shown on the plans, shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging or other temporary purposes shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—Masonry.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water, and the materials used in masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

7—Cement.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used, and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand To Be Approved.

Before any cement is used, the brand and name of the maker must receive the approval of the Engineer, and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where maunfactured or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which, by their records, show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds, and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area, of not less than one hundred and eighty (180) pounds, and at the end of twenty-eight (28) days, one (1) day in air and twenty-seven (27) days in water, of not less than two hundred and seventy-five (275) pounds.

Chemical Analysis.

Chemical analysis will be made from time to time and cement furnished must show a reasonably uniform composition, and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid (SO_3) nor more than 4 per cent. of magnesia (MgO).

Soundness.

Tests for soundness will be made as follows:

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre, and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy degrees (70 degrees) Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks and one shall be exposed to an atmosphere of steam above boiling water, in a loosely closed vessel for five (5) hours. These pats shall remain hard, and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent., from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store, at some convenient point in the vicinity of the work, or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—Mortar.

Cement and Sand. Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations, and for other classes of work, as directed by the Engineer.

9—Concrete.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound, screened gravel or sound hard broken limestone, trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inches in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼-inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones

shall be set by hard in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone, when machine mixed: when mixed by hand one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case. water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed, as directed, before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work; and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete, if so ordered.

Joints Cleaned.

In all cases of joints of old with new work, the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight, a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed; or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms, if made of wood, shall be made of boards with close-fitted matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer, these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that, when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Surfaces Not to Be Painted.

The exposed faces of the concrete, excepting within station limits, will not be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—Brick Masonry.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full or mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks, of whatever nature, shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—Stone Masonry.

Footings for Columns.

In general, columns will be set on a concrete base; in special cases, however, footing stones may be required.

Footing Stones. To be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top where the column base plate is to rest shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case the Contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case, during the progress of the work, any rubble or other masonry of a different class from that specified above, shall become necessary, and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class, and according to the direction of the Engineer.

12—Waterproofing.

In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than four inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of plies of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (⅓) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit and melt at 100 degrees Fahrenheit, being a grade in which distillate oils, distilled therefrom, shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt, of equal quality, and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in Acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used, together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric Waterproofing to be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor to be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—Drains and Pumps.

Railroad to be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the railroad and draining into the sewers.

Subdrains.

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the subdrains or the floor of the railroad. Such sump must be water-tight, with a capacity of not less than eight hundred (800) gallons.

14—Steel and Iron.

Open Hearth Process.

Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000± (Min.)
Yield point	55% Ult.	55% Ult.	35000± (Min.)
Elongation	1500000 Ult. Str.	1500000 Ult. Str.	20% in 2"
Fracture	Silky.	Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120°(d.=3+.)

The yield point shall be that strain, beyond which the elogation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half per centum (2½ per cent.) from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

Wrought Iron.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a yield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

Cast-Iron.

True to Pattern. Tests.

All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1/10) of an inch before rupture.

Workmanship.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be subpunched and reamed a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Subpunching and Drilling.

All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be subpunched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members, shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be subpunched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Rollers and Bed Plates.

Rollers shall be turned and roller beds and bed plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer, and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material, and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale, and receive one coat of approved paint as herein specified before leaving the shops. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead (Pb_3O_4). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk belting cloth not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahrenheit on a current of hydrogen shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 6 gallons of boiled linseed oil and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed, but not painted, before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to Be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations this shall be black carbon paint, but for the stations, and for 30 feet each way therefrom, see specifications for painting under the heading of the stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material, or adulterant, shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—DUCTS.

Quality. Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches; shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To Be Rodded.

After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleared from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms, additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—SEWERS.

In Accordance with Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner, as called for by these specifications and as shown on the drawings.

Change of Location.

If during the progress of the work it is found, in the opinion of the Engineer, impracticable to construct according to the contract drawings any sewers, manholes or other appurtenances, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of Departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than four feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer, and for the distance specified.

The excavation of trenches shall be fully completed at least twenty feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting, the exposed end of the sewer shall, in all cases, be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall

be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations to Be Made Good.

Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared and before laying any sewer, the Contractor shall notify the Engineer, who will thereupon cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized Inspector, and at no other time shall such construction work be done.

Trenches to Be Kept Free from Water.

The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

When tunneling for sewers shall be deemed advisable, it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway to Be Kept Open.

At all times the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to Be Kept Clear.

Where any crosswalk or roadway is cut by the trench it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which, in the judgment of the Engineer, are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to Be Maintained.

The Contractor shall provide for the flow of all sewers, drains and water courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on sstrong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than 20 feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than 15 feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthen-ware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than 13 feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point 13 feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying watermains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point 13 feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Where indicated on the plan, or, if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the Contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used If Ordered.

Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms or invert centres, which are to be removed when the concrete has become sufficiently set.

Invert To Be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material, and shall be secured, as elsewhere provided in these specifications.

Defective Work.

If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers. Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

Six-inch pipes shall be not less than 5/8 of an inch thick; 8-inch pipes shall be not less than 3/4 of an inch thick; 10-inch pipes shall be not less than 7/8 of an inch thick; 12-inch pipes shall be not less than 1 inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than 2 inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than 5 inches wide. Each collar must have an internal diameter of not less than ½ inch nor more than 1½ inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than 6 inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthen-ware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be 4 inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside Unless otherwise ordered, not less than 15 feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are

fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; each shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct, and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than 8 inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by special bluestone 8 inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar 1 inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than 12 inches below the flow-line grade of the sewer, except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required, it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than 2 feet above the bench at the bottom of the manholes nor more than 2 feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds; street manhole cover, 135 to 150 pounds; sidewalk manhole head, 300 to 310 pounds; sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than 12 inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan and free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe, unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick, as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings, or other details to be furnished by the contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Back-filling.

The back-filling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer, the regrading and temporary paving over the same shall be done and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, etc., to be Kept Clean.

During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even, so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

Forty-eight-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent. for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such moulding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air furnace) shall be pig iron, made without any admixture of cinder iron or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles and other defects and imperfections.

Castings to be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting can be dipped after rust has set in.

Pitch.

The coal-tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

No casting shall be dipped until the authorized Inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test will be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed, and the weight distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick, with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption to be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop-cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—PAVING.

Pavement to be Restored.

As soon as the work in any open excavation or trench made under this contract within a street shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as that existing previous to the commencement of construction.

Other Pavements May Be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement; or to make an arrangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such Municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the Municipal officer in charge of street paving, or any property owner, desires to lay a pavement in any street, or a sidewalk along any street, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission in its discretion may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed but not relaid, and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—MAINTENANCE OF STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUB-SURFACE STRUCTURES.

Surface and Sub-surface Structures to be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains, and all other surface or sub-surface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or sub-surface structure as mentioned above, or sidewalk, curb, area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice to be Given.

Notice is to be given by the Contractor to all companies and the proper city officials, owning or having charge of surface or sub-surface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the re-arrangement of sub-surface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May Do Work.

Whenever it becomes necessary to cut, move, change, or reconstruct any such structures as named above, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor; such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and a half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction or alteration if performed by the City or owners shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time as shall be adjudged by the Commission, may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures as above provided, or in case they shall consider it necessary or desirable to make any further alterations in, or do any work to or in connection with surface or sub-surface structures owned by them or it, at the time the work under this Contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for

the benefit solely of the owners of sub-surface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—STATIONS.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the stations at Prospect and Seventeenth streets and at Twenty-fifth and Twenty-sixth streets.

Station Plans Furnished.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail, from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar, as far as possible, to the general details of the stations, as indicated on the above-mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement, plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits, and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways, shall be "Pink Georgia," or its equal.

All marble lintels shall be "Green Veined Vermont," or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the wainscot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enameled or face bricks shall be of an approved brick of the best quality. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar, consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and, if that fail, then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level, when acting as retaining walls, shall be built of brick or concrete, with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the bottom by a pipe leading to the drains. Where directed, openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2⅜ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick Facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the station sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms, shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors and laid or set as the Engineer may direct. In the designs of the stations all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the station must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning, and to permit, if desired, a thorough washing of all parts of the stations and their approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the concrete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.

On terra cotta blocks, one (1) brown coat and two (2) finish coats.

On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles shall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish.

The floors of the station platforms, closets, toilet rooms, mezzanines and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and a half (2½) parts of sand and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or hereinafter specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth uniform hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalls a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundations. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landings shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the stations. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered from the sidewalks or from the parkways in the street.

Connecting Passageways.

The stations shall be located so that the station platforms shall extend past two cross streets. Both platforms of stations shall be connected with each other by two (2) underground passageways, to enable passengers to have access to both station platforms from either side of the street, at both cross streets intercepted by the stations.

Ticket Booths, Doors and Newsstands.

The ticket booths, doors and newsstands shall be constructed of metal covered wood with moldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass, plain or frosted as indicated, and shall be enclosed with bronze grille. Plate glass coin shelves shall be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls, excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and newsstands shall be of solid bronze metal without lacquer, and of weight, quality and design, as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles, and the stairway railings and hood at the street surface, shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Sanitary Arrangements.

Stations shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one (1) floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract.) All soil piping in connection therewith shall be provided as a part of the station construction and from thence into the sewer. Between the wall spaces and the sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass as approved by the Engineer. All work must conform with the City Building and Health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one 16-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Ventilation.

Ventilating openings shall be constructed in the roofs of the stations. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms; and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths and news stands.

Pipes, Conduits, etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22—General Clauses.

It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work to be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions; orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper inspector.

In all work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it is may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., to be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, waterpipe, gaspipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the Rapid Transit Railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and harbor of materials used in or in connection with the work.

Condemned Materials to be Removed.

If the work or any part thereof, or any material found or brought on the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuild or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is, in his opinion, incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

V.—Security to be Furnished by Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond, in due form, executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission, in the sum of one hundred and fifty thousand dollars ($150,000). In case any of the sureties upon the bond shall become insolvent or unable, in the opinion of the Commission, to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor, within thirty days after notice by the Commission to the Contractor, shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into the hands of the City and due to the Contractor, the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may, at his option, deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission, which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule, then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall,

upon such substitution of securities or deposit of cash in lieu thereof, be returned to the Contractor.

When Contractor may Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may, from time to time, substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall, from time to time, collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another Contractor or Contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit, upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor, within ten days after notice from the Commission so to do, shall (unless the time be extended by the Commission), by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission, restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss caused to others by the negligence, fault or default of the Contractor, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balances during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned, then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments, How to Be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been delivered in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for 90 per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be 90 per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor without any deduction except as herein otherwise provided. In case the Contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determinations of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of construction under this contract, the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller the City shall pay to the Contractor in cash the amount remaining after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claim for Damage. Statements of Damage to Be Filed with Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the 15th day of the month succeeding that in which any such damage shall have been sustained the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and unless such statement shall be made as thus required his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence That Labor and Materials Have Been Paid For.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after, the final completion of the works, that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Contractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition, until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law, then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall in the course of construction be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to Be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in connection with the work as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, Etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any sub-contractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any sub-contractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any sub-contractor or other person employed on the works.

Money Due the Contractor May Be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any sub-contractor or other person employed on the work, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a Court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or structures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any sub-contractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor or of any sub-contractor or of any other person in the course of any employment under the Contractor or any sub-contractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business, or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings

recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be prima facie evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract, by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor, by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Works During Construction.

All risk of loss or damage to the works or to the materials therefor, prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference By Injunctions, to Acquire Real Estate, Etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contractor shall enforce his right against the City under this provision solely by claim for money, and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense, or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counter-claim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transportation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, etc.

Commencement and Completion of Work.

Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price to be Reduced for Delay.

In the event of delay in completion of the works beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due), there shall be deducted and retained by the City as liquidated damages for such delay (and not as a penalty) one per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the counsel to the Commission shall be authorized by the Contractor to appear for that purpose as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as such completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceeding involving this clause of the contract, the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract Not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall not be reasonably probable that the works will be completed within the period above limited, then and in such case the Commission, upon notice to the Contractor of not less than thirty days, may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City, by the Commission, in addition to every, or in substitution for any other, remedy which it may have by law or hereunder, may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk or otherwise as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may, to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to Contractors, upon such terms as the Commission may deem proper; the same to provide among other things that the new Contractor shall allow for so much of construction as has been already completed, a reasonable amount to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Conrtactor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upor the bond, or with respect to the deposits of cash or securties made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—Miscellaneous Provisions.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and, if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail, whether of construction or location of route, as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provisions in Case Commission Cease.

In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission of any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof, as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of section 13 of the Labor Law, it is further provided that if the provisions of the said section are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect, and shall upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission, and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has hereunto set his hand and seal and caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By ....., Chairman.

Attest:

....., Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared , to me known, who, being by me first duly sworn, did depose and say: That he resided in , in the State of ; that he is of the , the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

CONTRACTOR'S BOND.

(Fourth Avenue Route, Tenth Street to Twenty-seventh Street.)

[11-A-3.]

Know all men by these presents, that , of , hereinafter called the Contractor, and and , hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City, in the penal sum of one hundred and fifty thousand dollars ($150,000) lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said one hundred and fifty thousand dollars ($150,000) and each of the said Sureties to be so held and bound only for a portion of said penal sum as follows:

The said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($); the said for the sum of dollars ($).

In witness whereof, the Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these prsents to be attested by the proper officers of each of them which is a corporation, this day of , 1908.

Whereas, The City, by the Public Service Commission for the First District (hereinafter called the Commission), is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a rapid transit railroad (including pipe galleries), known as the Fourth Avenue Route, in Fourth avenue, and extending from Tenth street to Twenty-seventh street, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof.

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defence upon this bond; that the Sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

CONTRACTOR'S PROPOSAL.

[11-A-3.]

(Fourth Avenue—Tenth Street to Twenty-seventh Street.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors.

Copy of Form of Contract.

Copy of Form of Bond.

Schedule of Securities, filled up only if the bidder desires to deposit securities in lieu of cash

To the Public Service Commission for the First District:

1. The undersigned* do hereby, in pursuance of the invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract with The City of New York in the form therein referred to and to perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad; but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit values thereof, and are submitted in accordance with the invitation to Contractors. In submitting this estimate, it is understood that the acceptance of this proposal by the Commission imposes upon it no obligation to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

RAILROAD CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per square yard	.....	.....	.....
With treated fabric, 3-ply, per square yard	.....	.....	.....
With treated fabric, 4-ply, per square yard	.....	.....	.....
With treated fabric, 5-ply, per square yard	.....	.....	.....
With treated fabric, 6-ply, per square yard	.....	.....	.....
Brick laid in asphalt mastic, per cubic yard	.....	.....	.....
†Drains—			
15-inch vitrified pipe, per linear foot	.....	.....	.....
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch or 3-inch vitrified pipe, per linear foot	.....	.....	.....
16-inch cast iron pipe, per linear foot	.....	.....	.....
12-inch cast iron pipe, per linear foot	.....	.....	.....
10-inch cast iron pipe, per linear foot	.....	.....	.....
8-inch cast iron pipe, per linear foot	.....	.....	.....
6-inch cast iron pipe, per linear foot	.....	.....	.....
4-inch cast iron pipe, per linear foot	.....	.....	.....
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds	.....	.....	.....
Steel beams, per ton of 2,000 pounds	.....	.....	.....
Cast steel, per ton of 2,000 pounds	.....	.....	.....
Cast iron, per ton of 2,000 pounds	.....	.....	.....
Tunnel ducts	.....	.....	.....
Vault lights, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Wire mesh (expanded metal), per square yard	.....	.....	.....
Gas pipe handrail, per linear foot	.....	.....	.....
Total			$.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

† Includes all specials and fittings.

Sewers Along Line and Off Line.

*Sewers.	Along Line.			Off Line.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
6-inch cast-iron pipe	.....	$.....	$.....	.....	$.....	$.....
8-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
10-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
12-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
14-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
16-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
18-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
20-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
24-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
30-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
36-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
42-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
48-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
54-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
6-inch vitrified pipe	.....	.....	.....	.....	.....	.....
8-inch vitrified pipe	.....	.....	.....	.....	.....	.....
12-inch vitrified pipe	.....	.....	.....	.....	.....	.....
15-inch vitrified pipe	.....	.....	.....	.....	.....	.....
18-inch vitrified pipe	.....	.....	.....	.....	.....	.....
24-inch vitrified pipe	.....	.....	.....	.....	.....	.....
Egg-shaped Brick or Concrete—						
3 feet by 2 feet	.....	.....	.....	.....	.....	.....
3 feet 6 inches by 2 feet 4 inches.	.....	.....	.....	.....	.....	.....
4 feet by 2 feet 8 inches	.....	.....	.....	.....	.....	.....
4 feet by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches by 2 feet 10 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 9 inches by 3 feet 2 inches.	.....	.....	.....	.....	.....	.....

*Sewers.	Along Line. Lin. Ft.	Price.	Amount.	Off Line. Lin. Ft.	Price.	Amount.
Circular—						
3 feet 9 inches	.....	.....	.....	.....	.....	.....
4 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches	.....	.....	.....	.....	.....	.....
4 feet 9 inches	.....	.....	.....	.....	.....	.....
5 feet	.....	.....	.....	.....	.....	.....
5 feet 3 inches	.....	.....	.....	.....	.....	.....
5 feet 6 inches	.....	.....	.....	.....	.....	.....
6 feet	.....	.....	.....	.....	.....	.....
6 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 6 inches	.....	.....	.....	.....	.....	.....
8 feet	.....	.....	.....	.....	.....	.....
9 feet	.....	.....	.....	.....	.....	.....
9 feet 3 inches	.....	.....	.....	.....	.....	.....
9 feet 6 inches	.....	.....	.....	.....	.....	.....
†Special Forms—						
6 feet by 8 feet 6 inches	.....	.....	.....	.....	.....	.....
7 feet by 13 feet 8 inches	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.

† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe. Lin. Ft.	Price.	Amount.	Gas Pipe. Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot	.....	$.....	$.....
Street railway track (single track), per linear foot	.....	.....	.....
Elevated railway columns, each	.....	.....	.....
Total			$.....

Stations.

Classified Items.	Quantity.	Price.	Amount.
Tile—			
Straight tile, per square foot	.....	$.....	$.....
Curved tile, per square foot	.....	.....	.....
Ceramic tile, per square foot	.....	.....	.....
Ceramic tile (special pieces), each	.....	.....	.....
(Scratch coat to be included in the above items.)			
Marble—			
Platform wainscot, per square foot	.....	.....	.....
Lintels, Type "A," each	.....	.....	.....
Lintels, Type "B," each	.....	.....	.....
Lintels, toilet, each	.....	.....	.....
Lintels, special, each	.....	.....	.....
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station	.....	.....	.....
Back pressure valves, check and gate, each	.....	.....	.....
Toilet fixtures, complete, each	.....	.....	.....
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot	.....	.....	.....
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station	.....	.....	.....
Catch basins, including traps, pipes and sewer connections for same, each	.....	.....	.....
Fire service connections, including necessary pipe and valves, each	.....	.....	.....
Wall drains, complete, each	.....	.....	.....
Plastering—			
Flat suspended ceiling, complete, per square yard	.....	.....	.....
Arched suspended ceiling, complete, per square yard	.....	.....	.....
First, second and finish coats on brick or tile, per square yard	.....	.....	.....
Second and finish coats on concrete, per square yard	.....	.....	.....
Portland cement finish on concrete, per square yard	.....	.....	.....
Wire lath and steel furring, exclusive of plaster, per square yard	.....	.....	.....
Woodwork—			
Ticket booths, Type "A," each	.....	.....	.....
Ticket booths, Type "B," each	.....	.....	.....
Ticket booths, Type "C," each	.....	.....	.....
Ticket booths, Type "D," each	.....	.....	.....
Ticket booths, Type "F," each	.....	.....	.....
Ticket booths, special, each	.....	.....	.....
News stands, each	.....	.....	.....
Fixtures for masonry booths, each	.....	.....	.....
Fixtures for news stands, each	.....	.....	.....
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each	.....	.....	.....
Doors, Type "B," including hardware, each	.....	.....	.....
Doors, Type "C," including hardware, each	.....	.....	.....
Doors, Type "D," including hardware, each	.....	.....	.....
Doors, Type "E," including hardware, each	.....	.....	.....
Doors, special, including hardware, each	.....	.....	.....
Trim and doors for panel and switchboards, each	.....	.....	.....
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread	.....	.....	.....
Supported stairways, including safety treads, per linear foot tread	.....	.....	.....
Self-supporting landings, including safety treads, per square foot	.....	.....	.....
Supported landings, including safety treads, per square foot	.....	.....	.....
Reinforced concrete columns, per linear foot	.....	.....	.....
Reinforced concrete street landings, per cubic foot	.....	.....	.....
Cement finish on street landings, including safety treads, per square foot	.....	.....	.....
Cement stairway strings, per linear foot	.....	.....	.....
Reinforced concrete curbs, including cement finish, per cubic yard	.....	.....	.....
Cement face on sides of stairways, per linear foot	.....	.....	.....
Floors—			
Concrete floor finish, per square foot	.....	.....	.....
Concrete floor foundation, per cubic yard	.....	.....	.....
Sanitary cove, per linear foot	.....	.....	.....
Cement base, including sanitary cove, per linear foot	.....	.....	.....
Pipe troughs, including covers and frame, per linear foot	.....	.....	.....
Clean cut manholes, including covers and frames, each	.....	.....	.....
Mason Work—			
Face brick, per square foot	.....	.....	.....
Common brick and hollow tile, per cubic foot	.....	.....	.....
Vent flues, per linear foot	.....	.....	.....
Fireproof ceiling, per square foot	.....	.....	.....
Railings—			
Straight level railing, including posts, per linear foot	.....	.....	.....
Curved level railing, including posts, per linear foot	.....	.....	.....
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)			
Painting—			
Station painting, complete, per station	.....	.....	.....
Total			$.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Amount of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

SUMMARY.

Total for excavation, etc..... $.....
Total for water pipe, gas pipe and other surface and subsurface structures. .....
Amount of bid..... $.....

4. If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract *a bond in the penalty of one hundred and fifty thousand dollars* ($150,000) *in the form hereto annexed with the following named sureties, viz.:**

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at Room No. on the floor of the building No. in the Borough of in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
being duly sworn, says: I am*

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of "; if a corporation, say "the (President or other officer duly authorized) of the Company."

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this days of , 1908.

Schedule of Securities.

Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.

The following was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891 as amended), the provisions of section 45 of the Greater New York Charter and the requisition of the Public Service Commission for the First District duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between Tidewater Building Company and Thomas B. Bryson and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn of a four-track underground railroad or subway, the centre line of which will begin at a point on the centre line of Fourth avenue 10 feet north of the northerly line of Tenth street, and running thence southerly along and under the centre line of Fourth avenue to a point 15 feet south of the south line of Twenty-seventh street..... $1,945,640 50

For the construction of pipe galleries in connection with the said railroad for the sum of..... 251,076 00

Total..... $2,195,716 50

—and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of Corporate Stock available for the said purposes shall be one million nine hundred and forty-five thousand six hundred and forty dollars and fifty cents ($1,945,640.50) for railroad construction, and two hundred and fifty-one thousand and seventy-six dollars ($251,076) for pipe gallery construction; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue Corporate Stock of The City of New York to the amount of five hundred thousand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) for pipe gallery construction, at such rate of interest as the Board of Commissioners of the Sinking Fund shall prescribe for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board under date of May 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

Contract.	Contract Awarded. For Railroad Construction.	Contract Awarded. For Pipe Gallery Construction.	Corporate Stock Requested. For Railroad Construction.	Corporate Stock Requested. For Pipe Gallery Construction.
No. 6—Section 11-A-4—Under Fourth avenue, from Twenty-seventh street to Forty-third street—E. E. Smith Contracting Company, contractor....	$2,808,982 80	$173,665 00	$500,000 00	$30,000 00

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
TRIBUNE BUILDING, No. 154 NASSAU STREET,
NEW YORK, May 26, 1908.

To the Board of Estimate and Apportionment of The City of New York:

SIRS—The Public Service Commission for the First District now transmits to you for your consent, as required by law, a proposed contract for the construction of Section 11-A-4 of the proposed Fourth Avenue Rapid Transit Railroad in the Borough of Brooklyn, which section extends under Fourth avenue from Twenty-seventh street to Forty-third street, and also for the construction of the pipe galleries embraced within such section. The form of the proposed contract is for construction alone, in accordance with the resolution adopted by your Board on the 4th day of June, 1907.

The route, of which the portion of the railroad to be constructed under this contract forms a part, was adopted by the former Rapid Transit Board on the 1st day of June, 1905, and was thereafter consented to by the local authorities and by the Appellate Division of the Supreme Court in the Second Judicial Department. The Public Service Commission for the First District, pursuant to law, prepared detailed plans and specifications for the construction of such rapid transit railway, and included in said plans provisions for galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors proper to be placed underground (hereinafter in this communication referred to as pipe galleries), and determined to make a separate contract for the construction of a part of the said route under Fourth avenue, from Twenty-seventh street to Forty-third street. The form of the said contract, as duly adopted by the Commission, was submitted to the Corporation Counsel, and the Commission was advised by him, in a communication dated March 30, 1908, that it is correct in form, and such contract was approved by your Honorable Board on the 27th day of March, 1908.

Thereafter the Commission duly advertised for proposals by notices printed twice a week for three successive weeks in four of the daily newspapers published in The City of New York, and also continuously from day to day in the CITY RECORD, which notices stated that said proposals would be opened at the office of the Commission on Friday, the 8th day of May, 1908, at 12 o'clock noon. At the said time and place the proposals were publicly opened, and those received were as follows:

Name of Bidder.	For Railroad Construction.	For Pipe Gallery Construction.	Total.
Remington & Sherman and F. W. Carlin Construction Company	$2,799,000 00	$299,000 00	$3,098,000 00
E. E. Smith Contracting Company	2,808,982 80	173,665 00	2,982,647 80
Millard Construction Company	3,326,412 25	200,205 00	3,526,617 25
William Bradley	3,523,435 05	217,950 00	3,741,385 05
S. Pearson & Son (Inc.)	3,532,624 00	184,316 00	3,716,940 00

An informal proposal was also received from Westinghouse, Church, Kerr & Co., which was based upon what is known as the master and servant type of contract, and which differed so radically from the proposals requested by the invitation to contractors that the Commission was advised by its counsel that such proposal could not be considered.

The Commision having duly considered the said proposals did, on the 22d day of May, 1908, accept the proposal of the lowest bidder for the combined amount of the railroad and pipe gallery bids, the E. E. Smith Contracting Company, both for the railroad construction and the pipe galleries, and accordingly awarded the contract for the construction of the same to the said E. E. Smith Contracting Company, subject to your consent as required by law. A copy of said contract as so adopted and awarded, is herewith transmitted.

The Commission is advised that the E. E. Smith Contracting Company has been engaged in important subway work in the City of Philadelphia, and believes it competent to perfom this work.

The Commission therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant also to the provisions of section 45 of the Greater New York Charter, requests you to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and requests you to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and the Commission does hereby make request for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now for the said contract and the progress of the work to require at the present time.

In witness whereof, the Public Service Commission for the First District has caused these presents to be signed by its Chairman and its official seal to be hereto affixed and attested by its Secretary, this 26th day of May, 1908.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

[SEAL.] By W. R. WILLCOX, Chairman.

Attest:
TRAVIS H. WHITNEY, Secretary.

Whereas, The Commission did, on the 22d day of May, 1908, subject to the consent of the Board of Estimate and Apportionment of The City of New York being obtained, accept the proposal of E. E. Smith Contracting Company for the construction of that portion of the proposed rapid transit railroad in Fourth avenue and other streets in the Borough of Brooklyn, known as Section 11-A-4, which extends under Fourth avenue from Twenty-seventh street to Forty-third street, for the sum of two million eight hundred and eight thousand nine hundred and eighty-two dollars and eighty cents ($2,808,982.80), and did also accept the proposal of the said E. E. Smith Contracting Company for the construction of pipe galleries embraced within the said section, for the sum of one hundred and seventy-three thousand six hundred and sixty-five dollars ($173,665); now therefore be it

Resolved, That the Chairman and Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment of The City of New York to consent to the said contract and to prescribe a limit to the amount of bonds available for the purposes of the said contract, and to request said Board of Estimate and Apportionment of The City of New York to direct the Comptroller to issue bonds of The City of New York for the purpose of providing the necessary means for the construction of the railroad and the pipe galleries, and to make request on the Board of Estimate and Apportionment of The City of New York for the authorization of Corporate Stock to the amount of five hundred thousand dollars ($500,000) for railroad construction and thirty thousand dollars ($30,000) for pipe gallery construction, those being the amounts which the Commission deems now necessary for the said contract and the progress of the work to require at the present time.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on , 1909, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 26th day of May, 1908.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

Invitation to Contractors, Form of Contract, Bond, Schedule and Contractor's Proposal for Construction of a Part of the Proposed Fourth Avenue Route, Brooklyn (Twenty-seventh Street to Forty-third Street).

INVITATION TO CONTRACTORS.

(Fourth Avenue from Twenty-seventh Street to Forty-first Street.)

The City of New York, acting by the Public Service Commission for the First District by this advertisement invites proposals to construct that part of the proposed Fourth avenue subway between points on Fourth avenue 15 feet south of the south line of Twenty-seventh street and 150 feet south of the south line of Forty-second street.

The general plan of construction calls for a four-track subsurface railroad, but the Contractor will not be required under the contract proposed to provide or lay tracks, ties or ballast. A station at Thirty-sixth street will be constructed; and suitable cross-overs, turnouts and sidings are also to be provided, all as indicated on the detailed plans of construction. The tunnels are to have a height of not less than thirteen (13) feet in the clear, and a maximum width of fifteen (15) feet for each track, except at curves, etc., where the width may be increased. The roof of the tunnels is generally to be as near the surface of the street as street conditions and grades will permit. The roof and sides of the tunnels will be of iron or steel and masonry. Entrances to the station are intended to be placed within private property, rights in which will be acquired for the purpose, or on the streets or on the sidewalks adjacent to private property, as indicated on the plans.

The manner of construction shall be by excavation in open trench, unless otherwise provided in the contract or directed by the Commission.

In the detailed plans for construction, provisions for pipe galleries along the line of the railroad are included. Bids for the construction of the railroad must be accompanied by a separate bid for the construction of the pipe galleries above referred to, as it is essential for the City to separate the cost of the railroad from the cost of the pipe galleries. The Commission reserves the right to accept a bid for construction of the railroad and at the same time to reject the accompanying bid for pipe galleries.

Bidders must visit the location of the railroad and stations to be built under this contract and note the present conditions along the line of the proposed railroad.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract now on file in the office of the Commission, No. 154 Nassau street, in the Borough of Manhattan, and in the detailed drawings therein referred to, at which office copies of the contract and of the form of bond and contractor's proposal may be had on application. The contract drawings may be inspected at the same office. The printed form of contract and the detailed drawings are to be deemed a part of this invitation.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The work of construction (including pipe galleries) is to be completed as soon as practicable, and within twenty-four months from the date of delivery of the contract.

Sealed bids or proposals will be received at the said office of the Commission, at No. 154 Nassau street, in the Borough of Manhattan, The City of New York, until day, the day of , 1908, at twelve o'clock noon, at which time or at a later date to be fixed by the Commission the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

The proposal must contain a statement, in the form prescribed, of the quantities and unit values upon which the bid is based. Such statement shall be merely for the information of the Commission to enable it to determine upon what basis the proposal is made, and for no other purpose whatsoever, and the Commission shall not be bound in any way to make payments or value work done upon the basis of such quantities and unit values contained in such statement.

No proposal will be allowed to be withdrawn for any reason whatever after it shall have been deposited with the Commission.

The award of the contract or contracts (if awarded) will be made by the Commission within twenty days after the opening of the proposals. The bidder whose proposal shall be accepted shall in person or by duly authorized representative attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment; and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract the Contractor will be required to furnish security to the City by giving a bond in the penalty of one hundred and fifty thousand dollars. At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract they must be of the character of securities in which savings banks may invest their funds and must be approved by the Commission. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City 10 per cent. of each amount certified from time to time to be due to the Contractor will be retained until the work is fully completed.

Bidders whose proposals are otherwise satisfactory to the Commission may, in case the sureties or securities named by them are not approved by the Commission, substitute in their proposals the names of new sureties or a different schedule of securities approved by the Commission; but such substitution must be made within five days after notice of disapproval by the Commission, unless this period is extended by the Commission.

In case of failure or neglect to execute and deliver the contract or to make the required deposit or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case the Commission will give notice thereof to the defaulting bidder. And the Commission may thereupon proceed to make another contract with such, if any, of the original bidders as, in the opinion of the Commission, it will be to the best interest of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

Every proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Rapid Transit Railroad (Fourth Avenue, Twenty-seventh Street to Forty-third Street)" and must be delivered to the Commission or to its Secretary; and in the presence of the person offering the proposal it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a certified check drawn upon a national or State bank or trust company within The City of New York and satisfactory to the Commission, payable to the order of the Comptroller of The City of New York, for the sum of twelve thousand five hundred dollars.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is approved by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or make a deposit in cash or securities, then this invitation to contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damages by it sustained by reason of such failure; and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

New York, , 1908.

THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.
By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT No. 11-A-4.

For the Construction of a Part of the Proposed Rapid Transit Railroad, Fourth Avenue (Brooklyn), Twenty-seventh Street to Forty-third Street.

Approved as to form this day of , 1908.

....., Corporation Counsel, City of New York.

FOURTH AVENUE ROUTE.

CONTRACT No. 11-A-4.

Agreement, made this day of , 1909, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and E. E. Smith Contracting Company, hereinafter called the Contractor, party of the second part.

Whereas, The Commission, in behalf of the City, by due advertisement pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual stipulations and covenants hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled "An Act to Provide for Rapid Transit Railways in Cities of Over One Million Inhabitants," and of the various acts amending the same, and of chapter 429 of the Laws of 1907, abolishing the Board of Rapid Transit Railroad Commissioners for The City of New York and devolving the powers and duties of the said Board upon the Commission, the parties hereby do, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

The Contractor agrees to construct the part, hereinafter described, of a rapid transit railway with its appurtenances (including pipe galleries). The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

The railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York June 1, 1905, and approved by the Board of Estimate and Apportionment of The City of New York on July 14, 1905, by the Mayor on July 28, 1905, and consented to by the Appellate Division of the Supreme Court in the Second Judicial Department by an order entered on the 18th day of June, 1906.

The part to be constructed under this contract is described as follows, viz.:

A four-track underground railroad or subway, the centre line of which will begin at a point on the centre line of Fourth avenue 15 feet south of the south line of Twenty-seventh street and running thence southerly under and along the centre line of Fourth avenue to a point about 70 feet south of the south line of Fortieth street; thence continuing southerly under the west side of Fourth avenue as a two-track railroad to a point about 150 feet south of the south line of Forty-second street. South of the station near Thirty-seventh street the four tracks will branch, making provision for connection with the Bensonhurst, Bath Beach and Coney Island route. The centre line of these four tracks will begin at a point on the centre line of Fourth avenue near the south line of Thirty-seventh street and run thence southerly under and along the centre line of Fourth avenue to a point about 75 feet north of the north line of Thirty-ninth street and will curve thence easterly under Fourth avenue to a point about 55 feet south of the south line of Thirty-ninth street and about 15 feet west of the east line of Fourth avenue.

The precise location of the tracks and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract and in the detailed drawings and plans hereinafter mentioned. A station is to be constructed under this contract as a part of the railroad at Thirty-sixth street extending to points between Thirty-fifth street and Thirty-seventh street. The pipe galleries which are to be constructed as an independent item of the work are also described in the said specifications, drawings and plans.

Statutes Incorporated Herein.

This contract is made pursuant to the Rapid Transit Act which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Titles, headings and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

1. The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

2. The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment and operation of rapid transit railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

3. The word "Contractor" to mean the party of the second part to this contract and its successors and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "its," "her" and "their."

"Comptroller."

4. The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

5. The word "Engineer" to mean the present Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

6. The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892; chapters 528 and 752 of the Laws of 1894; chapter 519 of the Laws of 1895; chapter 729 of the Laws of 1896; chapter 616 of the Laws of 1900; chapter 587 of the Laws of 1901; chapters 553, 542, 544 and 584 of the Laws of 1902; chapters 562 and 564 of the Laws of 1904; chapters 599 and 631 of the Laws of 1905; chapters 472, 606 and 607 of the Laws of 1906, and chapter 429 of the Laws of 1907, or as heretofore otherwise amended.

"Railroad."

7. The word "railroad" to mean the part which the Contractor agrees by this contract to build, together with the station belonging to or to be used in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"Pipe Galleries."

8. The words "pipe galleries" to mean all galleries, ways, subways or tunnels for gas or water pipes, electric wires and other subsurface structures and conductors which the Contractor agrees by this contract to build as a separate undertaking from the railroad.

"The Works."

9. The words "the works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

10. The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

11. The words "daily newspaper" to mean any paper regularly published in The City of New York on every day or every day except Sundays and holidays.

"Notice."

12. The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above named place or depositing in a postpaid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission may disapprove Subcontractors.

The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of such subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved of by the Commission.

II.—Work to be Done, Price, etc.

Work to be Done.

The Contractor shall, at his own cost and expense, and in strict conformity with the specifications, hereinafter contained and called the Specifications, and also in strict conformity with the plans which are made a part hereof and with all the provisions of this contract, whether included in the specifications or not, furnish all the materials and labor necessary and proper for the purpose, and, in a good, substantial and workmanlike manner, construct and provide the railroad, including therein the station, side-tracks, switches, crossovers, and all other appurtenances as hereinafter specified, but this contract does not require the Contractor to provide or lay tracks, ties or ballast.

Construction Includes Sewer and Other Incidentals.

In order to construct the railroad it will be necessary to take up and relay the pavement or other surface material, to protect and support during construction all buildings and other structures, including their foundations, and all elevated and surface railroads, watermains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake catch basins and other sewer connections therewith; to move, ... or rebuild watermains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including under-pinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform.

Price for Railroad Construction.

The City shall pay, and the Contractor shall receive for the construction of the railroad, including the incidental work above mentioned, the sum of two million eight hundred and eight thousand nine hundred and eighty-two dollars and eighty cents ($2,808,982.80), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

Pipe Galleries to be Constructed.

The Commission has included in the detailed plans and specifications hereinafter mentioned, provisions for pipe galleries. The Contractor, in addition to the work of construction of the railroad, shall also, at his own cost and expense, and in strict conformity with the said plans and specifications, and with all the provisions of this contract, whether included in the specifications or not, furnish all the material and labor necessary and proper for the purpose, and in a good, substantial and workmanlike manner construct and provide the pipe galleries with all appurtenances thereof.

Price for Pipe Galleries.

The City shall pay and the Contractor shall receive for the construction of the pipe galleries (in addition to the above payment for the construction of the railroad) the sum of one hundred and seventy-three thousand six hundred and sixty-five dollars ($173,665), subject to modification as hereinafter provided and to the conditions in this contract prescribed.

What is Included in Pipe Gallery Construction.

The construction of the pipe galleries as herein specified shall include (1) the furnishing of all labor and materials necessary for and included in the construction of said pipe galleries and appurtenances; (2) all excavation of earth and rock determined by the Engineer as necessary for the construction of the pipe galleries, outside of the side lines of excavation for the railroad, that would not otherwise be excavated; (3) the removal and relaying of all electric ducts or ways in existence at the time of executing this contract (excepting the ducts of street railroads) that it may be necessary to remove and relay, and the furnishing and laying of such additional ducts as are indicated on the plans; and (4) the construction of such chambers and manholes as are necessary for the proper and convenient operation of the pipe galleries.

The removal, reconstruction and replacement of all other pipes or subsurface structures shall be included in the construction of the railroad.

Provisions of this Contract Apply to Pipe Galleries.

All the following provisions of this contract, except where by the context it is clear that another meaning is intended, shall be construed to apply to and include both the construction of the railroad and the construction of pipe galleries.

Right of Commission to Amplify Plans, to Require Extra Work, etc.

The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings. The Commission shall also have the right by notice to the Contractor to require additional work to be done or additional materials to be furnished, or both, or to require work or materials herein specified or provided for to be omitted; provided, however, that the amount of work and materials called for by this contract shall not be so increased or diminished as substantially to alter the general character or extent of the work proposed.

Payment for Extra Work, etc.

If additional work or materials shall be so required, then the reasonable value thereof shall be additionally paid to the Contractor. If work or materials herein specified or provided for shall be so required to be omitted, then the reasonable deduction shall be made in the manner hereinafter provided from the amount to be paid to the Contractor for construction.

The location of the station and the ventilating shafts or chambers, as stated in the specifications, or as indicated on the detailed plans, may in like manner be changed, or ventilating shafts or chambers may be added or omitted at any time during the progress of the work, the Contractor receiving additional payments as above provided in case additional work is thereby made necessary, or a deduction being made in case diminution of work is caused thereby.

Beauty of Material as Well as Efficiency.

The railroad system, of which the railroad constructed under this contract forms a part, will constitute a great public work. All parts of the structure where exposed to public sight are, therefore, designed, and shall be constructed, with a view to the beauty of their appearance, as well as to their efficiency.

Contractor Bound to Complete in Best Manner.

The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices hereinbefore agreed upon; except that for extra work, if any, ordered by the Commission there shall be additional payment, and except that for part or parts of the works, if any, omitted, there shall be a deduction from the contract prices, all as hereinbefore provided.

Best Materials, Machinery, Tools, etc., to be Used.

The Contractor is to furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as hereinbefore provided.

Contractor has Examined Location, Plans, etc.

The Contractor hereby represents that prior to the execution of this contract he has examined on the ground the location mentioned herein and shown on the plans, that he has examined the plans and has read this contract and has had full opportunity to consider the same and make investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or extension of time for completion of the works, or other remedy or concession, because of any misinterpretation or misunderstanding of this contract or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any other part of the works.

Inspection.

The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

The Contractor shall at all times give to the Commission and its members, to the Engineer and the assistants and superintendents under the Engineer, and any

person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and any superintendent, assistant or other person bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Substitute for Chief Engineer.

Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Work to be Subject to Approval of Engineer.

The work is to be done and the materials are to be furnished subject to the direction and approval of the Engineer. The Contractor shall promptly obey and follow every direction which shall be given by the Engineer, including any direction which he shall give by way of withdrawal, modification or reversal of any previous direction given by him. If any additional specification be prescribed or additional drawing be required to be followed, or additional detail required, or if any question shall arise as to the quality, character or amount of materials or work, or as to the general character or extent of the work proposed, or as to the obligation of the Contractor to do any particular work or furnish any particular materials, or as to the value of any additional work or materials required by the Commission or as to the deduction to be made from the contract price by reason of any materials or work directed by the Commission to be omitted; or if any other dispute, question or doubt as to what is the obligation of the Contractor shall arise prior to the time of the complete construction of the works and the declaration thereof by the Commission, the determination of the Engineer shall be binding upon the Contractor and the City, so far that the Contractor shall proceed or refrain from proceeding, as the case may be, and without any delay obey the requirement of the Engineer.

III.—Arbitration Between City and Contractor.

Appeal from Engineer's Determination. Mode of Review. Arbitration.

The decision of the Engineer shall be binding and conclusive unless either the Contractor or the City shall appeal as hereinafter provided from his determination as to the reasonable value of any work or materials additionally required by the Commission as aforesaid or omitted as aforesaid, or as to the question whether the Contractor is entitled to additional payment for anything additionally required by the Engineer, whether upon additional specifications or drawings or in the way of additional details as aforesaid, or otherwise as herein provided, or as to the question whether the City is entitled to a deduction from the amount payable to the Contractor according to the terms hereof. In every such case the Engineer shall make his determination in writing and in duplicate, one duplicate to be filed with the Commission and the other duplicate to be delivered to the Contractor. Such determination as to work done or materials supplied shall be binding upon the City unless the Commission shall appeal within twenty days after its first meeting next after such determination shall be filed with it and written notice of such filing addressed to the Commission shall be personally delivered to its Chairman or to some other member thereof; and shall be binding upon the Contractor, unless the Contractor shall appeal within twenty days after the same shall be delivered to him. The appeal shall be taken by a written notice addressed, if the Commission be the appellant, to the Contractor, or, if the Contractor be the appellant, then to the Secretary of the Commission. The notice of appeal shall state the determination appealed from, the grounds of appeal, the precise award or redress desired, and shall include the appointment of an arbitrator on the part of the appellant, with a written acceptance by the arbitrator of the appointment. Within ten (10) days after the receipt of a notice of appeal, the party receiving the same shall appoint an arbitrator, and give written notice of such nomination to the party appealing, the notice to be accompanied by a written acceptance by the arbitrator of the appointment. If the party against whom the appeal is taken shall not so nominate and arbitrator, who shall so accept, then the arbitrator named by the party appealing shall be the sole arbitrator. Either party may, by a general notice to the other, appoint a standing arbitrator for such party. In case of such standing appointment such arbitrator shall be deemed to be appointed upon each appeal without specification of his appointment upon the appeal. Any vacancy in the office of the two arbitrators, hereinafter provided for, shall be filled by the party which shall have appointed the last incumbent of such vacant position, within five (5) days after notice of the vacancy, during which five (5) days the running of other periods of time prescribed for, or in course of, the arbitration shall be suspended. If not so filled, or if notice of the appointment be not given within such five days, the remaining arbitrator shall be the only arbitrator. In case both the Commission and the Contractor shall appeal from any such determination of the Engineer the arbitrators appointed by each in their notices of appeal, as hereinbefore provided, shall be deemed to be, with the third arbitrator hereinafter provided for, the arbitrators for both such appeals and both such appeals shall be heard together as one arbitration. If the party against whom an appeal has been taken shall appoint an arbitrator, then within ten (10) days after the appointment of such arbitrator, or if there be a standing arbitrator for such party, then within ten (10) days after the last notice of appeal shall have been served the Commission and the Contractor shall select a distinterested person to act as a third arbitrator, whose appointment shall be evidenced by such written appointment and acceptance thereof as is required in the case of the other arbitrators. Such third arbitrator shall be the Chairman of the Board of Arbitrators, and shall preside at all its meetings. In case the Commission and the Contractor are unable within ten (10) days to agree upon such third arbitrator, such third arbitrator shall be appointed by the Executive Committee for the time being of the Chamber of Commerce of the State of New York, or if, within ten (10) days after being notified by either the Commission or the Contractor of their failure to agree, the said Committee shall not make an appointment, then such third arbitrator shall be named by the Executive Committee for the time being of the Association of the Bar of The City of New York. In case of any vacancy in the position of such third arbitrator, his place shall be filled in the same manner as that hereinbefore provided in the case of an original appointment of such third arbitrator. At any time after the appointment of such third arbitrator either party may bring the matter on for a hearing upon five days' written notice to the other party, at which time the Board of Arbitration, constituted as aforesaid, shall proceed to hear such evidence or statements, oral or written, as may be produced. Such hearing shall be finished within thirty (30) days after such hearing shall begin; and within ten (10) days after finishing such hearing the determination of the arbitrators shall be made; provided, however, that a majority of the arbitrators may extend both these period last above mentioned to such further time as may be necessary. The award of the arbitrators shall be in writing, in duplicate, one duplicate to be delivered to the Commission and the other duplicate to be delivered to the Contractor, and the determination of any two of the three arbitrators upon any matter presented to them shall be the determination of the Board of Arbitrators, and shall be binding and conclusive between the parties. The days for notices and other proceedings shall be exclusive of Saturdays, Sundays and holidays. All fees and expenses of the arbitrators shall be borne and paid equally by the City and the Contractor, by both of whom every such arbitrator shall be deemed to be employed. Every such arbitrator shall, before proceeding to hear the testimony or to consider the matter, be sworn, as nearly as may be, in the same manner as referees in actions at law are required to be sworn. Either party may, upon any such appeal, by a written notice of appearance, appoint counsel to represent it or him, and to conduct all proceedings before such Board of Arbitration, and service of any notice or paper on such counsel during the progress of the arbitration shall be equivalent to service on the party whom he represents. In case a vacancy in the Board of Arbitrators shall occur after final submission and before decision, the Board of Arbitrators may, in its discretion, after such vacancy is filled, require further argument of counsel or introduction of evidence, or both

No Estoppel.

Neither the City nor the Commission shall be precluded or estopped by any return or certificate made or given by the Engineer (if unappealed from) or by the Commission or by any other officer from showing at any time (either before or after the completion of the works and payment therefor pursuant to any such return or certificate) the true and correct amount, quality and character of the work done and materials furnished by the Contractor, or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect, or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages or other legal remedy as it may be entitled to by reason of the Contractor's failure to comply with this contract and the specifications forming a part hereof.

Vouchers for Extra Work.

The Contractor shall become entitled to additional payment for extra work only upon the production of the certificate and determination of the Engineer, if unappealed from, or, if so appealed from, then only upon and according to the final award of an arbitrator or the Board of Arbitrators, as aforesaid; it being expressly agreed that the City shall make no additional payment to the Contractor except upon vouchers which include such certificate and determination unappealed from, or if appealed from, then such certificate and determination with such final award as a condition precedent to payment, and that no payment shall be made in any such case inconsistently with such final award.

When City Entitled to Abatement of Price.

The City shall not be entitled to claim any abatement from the contract price by reason of diminution in the amount of work required, delay in completion or otherwise except upon the certificate or determination of the Engineer unappealed from as aforesaid, or, if so appealed from, then upon the certificate and award of an arbitrator, or the Board of Arbitrators, as aforesaid.

In Case Arbitration Cannot Validly Be Had.

It is expressly agreed, however, that if in any case or for any reason an arbitration cannot validly be had as hereinbefore provided, then the City or the Contractor, after having appealed from such determination and being in no way respsonsible for failure of the arbitration, may prosecute such appeal or review such determination in or by any proper suit or proceeding.

IV.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.

The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either to show in advance all details, or to precisely forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of The City of New York. The Contractor shall construct and complete the railroad in the best manner, according to the best rules and usages of railroad construction, and if in the specifications or contract drawings or in the provisions of this contract, any detail requisite for such construction be not mentioned, nevertheless the same is deemed to be included, and the Contractor hereby undertakes to do the same as part of his work hereunder. And it is expressly agreed that the price to be paid the Contractor as herein prescribed includes full compensation for every such detail.

Where Text of Contract Doubtful, Best Materials and Workmanship Required.

In the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. This provision, by way of illustration (but of illustration only), implies the requirement that the interior surface of every part of the tunnel containing the railroad shall be entirely free from percolation of ground or other water from without; the requirement throughout of a structure whose component parts shall be of as permanent and durable a character as practicable; the requirement that the steel and such other parts of the structure as are liable to rust and decay shall be fully protected from such action and the requirement that there shall be an adequate and comfortable station. All the clauses of the specifications and all the parts of the contract drawings are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

The plans referred to in the specifications hereinafter contained are forty-four (44) in number, bear date the 14th day of February, 1908, are each countersigned by the Engineer, are stamped with the seal of the Commission and are designated as follows: Two (2) drawings marked Route No. 11-A-4, Contract Drawings Nos. A-10 and A-11; three (3) drawings marked Contract Drawings Nos. B-101, B-104 and B-105; three (3) drawings marked Route No. 11-A-4, Contract Drawings Nos. B-18, B-19 and B-20; twenty-eight (28) drawings marked Contract Drawings Nos. C-116, C-117, C-120 and C-126 to C-150, both inclusive; eight (8) drawings marked Contract Drawings Nos. C-200 to C-204, both inclusive, and C-206, C-215 and C-216.

Plans and Contract Drawings.

The sections and dimensions of all parts shown on the contract drawings are typical sections and dimensions applicable to the greater part of the work, and where no extraordinary conditions exist. Where such conditions do exist, or where unforeseen contingencies arise, such as the encountering of quicksand or other bad material, or when there are buildings, monuments or other structures whose foundations are of such a character as to bring an undue thrust upon the tunnel, or other similar circumstances exist, then and in every such case the Commission may issue such special plans, duly countersigned by the Engineer, and accompanied by specifications explanatory thereof, or describing the method of construction, changing the sections or the dimensions of the parts or the materials of the structure, and such special plans and specifications when so issued shall be binding on the Contractor as though originally contained in this contract, and shall not be made the basis of any claim for additional payments for extra work.

Supplementary Drawings.

In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal as the contract drawings, but designated as supplementary drawings, which are signed by the Engineer and marked as follows:

One (1) drawing marked Route Nos. 11-A-3 and 4, Supplementary Drawing No. D-22; four (4) drawings marked Route No. 11-A-4, Supplementary Drawings Nos. D-23 to D-26, both inclusive; two (2) drawings marked Route Nos. 11-A-4 and 5, Supplementary Drawings Nos. D-27 and D-102; one (1) drawing marked Route Nos. 11-A-2, 3 and 4, Supplementary Drawing No. D-101.

These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railroads; water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins, and other surface and subsurface structures. The supplementary drawings have been exhibited to the Contractor without any guaranty on the part of the Commission as to their completeness or correctness, and the Contractor may, at his option and at the expense of the Commission, have copies thereof for such aid, if any, as the Contractor may derive from them. If, upon opening the streets by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or if additional surface or sub-surface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall have no claim whatever for any such failure, discrepancy or error, but is to take every necessary or proper precaution to overcome the unforeseen difficulty, and is to take care of, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer.

Specifications Not Exclusive.

It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided

in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive, except that, upon any claim by the Contractor that he has been called upon to do work or furnish materials in excess in quantity or value of those called for by the terms of this contract, he shall be entitled to appeal and to a determination by an arbitrator, or the Board of Arbitrators, as hereinbefore provided, and to a correction by way of money allowance to it of any error of the Engineer.

The specifications are grouped in subdivisions as follows:

(48) 1. Description of the Work.
(55) 2. Manner of Prosecution.
(61) 3. Excavation.
(66) 4. Backfilling.
(67) 5. Piling and Timbering.
(69) 6. Masonry.
(70) 7. Cement.
(73) 8. Mortar.
(74) 9. Concrete.
(79) 10. Brick Masonry.
(81) 11. Stone Masonry.
(82) 12. Waterproofing.
(86) 13. Drains and Pumps
(87) 14. Steel and Iron.
(95) 15. Painting.
(98) 16. Ducts.
(101) 17. Sewers.
(122) 18. Water Mains.
(129) 19. Paving.
(131) 20. Maintenance of Street Railroad Tracks, Mains and other Surface or Subsurface Structures.
(133) 21. Stations.
(149) 22. General Clauses.

1—Description of the Work.

The work to be done under and in accordance with the contract and these specifications is the construction of a part of the rapid transit railroad known as Route No. 11, or the Fourth Avenue Route (Brooklyn), which is described in the routes and general plan adopted by the Board of Rapid Transit Railroad Commissioners on the 1st day of June, 1905.

It is to be a four track underground railroad or subway (but this contract does not require the Contractor to provide or lay tracks, ties or ballast), the centre line of which will begin at the southerly end of section 11-A-3, at a point on the centre line of Fourth avenue 15 feet south of the south line of Twenty-seventh street, and running thence southerly under Fourth avenue to a point about 70 feet south of the south line of Fortieth street; thence continuing southerly under the west side of Fourth avenue as a two-track railroad to a point about 150 feet south of the south line of Forty-second street, with tracks branching to the east between Thirty-seventh and Thirty-eighth streets, providing for a connection with the Bensonhurst, Bath Beach and Coney Island Route as hereinafter described.

There will be four tracks on the same level from Twenty-seventh street to a point south of Fortieth street, and two tracks continuing south to a point about 150 feet south of Forty-second street.

South of the station near Thirty-seventh street three branch tracks will be taken from the three westerly tracks on Fourth avenue, and being depressed will curve to the east to points near the east side of Fourth avenue, between Thirty-ninth and Fortieth streets to form a connection as above mentioned with the rapid transit route known as the Bensonhurst, Bath Beach and Coney Island Route.

Station to be Constructed.

A station is to be constructed at Thirty-sixth street; also suitable turnouts and crossovers, all as indicated on the plans.

The above description of the railroad to be constructed under this contract is in general language, but the location of the various tracks, junctions, grades, etc., are set forth more particularly on the accompanying contract drawings.

Surface and Subsurface Structures.

In addition to the construction of the railroad itself, it will be necessary to construct or reconstruct certain sewers, together with house and other sewer connections, and to adjust, readjust and maintain railroads, pipes, electric subways, vaults, poles and wires and other surface, subsurface and overhead structures, and to relay the street pavement, both on streets occupied by, and on streets other than those occupied by, the route of the railroad.

Ventilating Chambers and Gratings.

In order to provide for a frequent renewal of air in the railroad, chambers for the installation of the necessary ventilating devices shall be built at the sides of the railroad and in connection therewith, or blow holes shall be constructed over the roof. These chambers or blow holes shall be generally of the form and dimensions as indicated on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers, or in the park spaces over the railroad. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from these points, suitable air-ways, ducts or flues shall be constructed. Drainage shall be provided for all chambers in accordance with approved plans.

Other openings with gratings will be built at or over the station, for the purpose of admitting air to the railroad.

The chambers will be built between every two stations, one on each side of the railroad, generally about midway between the stations. In streets having parkways the blow holes may be required in each block.

The devices for ventilation to be placed in the chambers and in connection therewith, above referred to, will form a part of the equipment of the railroad, and are not to be furnished under this contract.

Emergency Exits.

Where ventilating chambers and devices are not provided other than blow holes in the parkways, special emergency exits will be constructed at the sides of the railroad as indicated on the plans, one on each side of the railroad between stations, with ladders leading to the street for use as exits in case of emergency; also at the blow holes ladders shall be provided.

Pipe Galleries.

Pipe galleries or ways will also be constructed over, or on one or both sides of, the railroad as provided in this contract or indicated on the plans.

Pipes, etc., to be Placed in Galleries.

The Contractor shall place in the galleries, if built, all pipes and other subsurface contrivances that properly belong therein, at such places as are indicated on the plans or as otherwise provided in this contract, and shall relay where necessary all electric ducts or subways of every nature, and shall do all work necessary to restore all services of every nature that exist at the time of executing this contract.

Drained and Ventilated.

The galleries are to be adequately drained by pipe connections with the sewers wherever convenient, fitted with the necessary traps, back pressure valves and vents to prevent sewer gases entering the galleries; they are also to have the necessary gratings or other openings to obtain thorough ventilation.

Manholes.

At the cross streets, and at other places convenient for such construction at intervals of about one hundred (100) feet, manholes for access to the galleries will be constructed, of form and dimensions to afford proper facilities for the convenient handling of pipes and other accessories. Those at the street intersections will necessarily be large and commodious in order to provide for the necessary connections, etc., of intersecting pipes.

Sewers Not in Galleries.

Sewers will not be placed in the galleries, but, if necessary, sewer manholes having sealed covers will connect with the galleries for convenient access thereto.

Ducts and Duct Manholes.

The ducts, to receive electric wires or cables, will be placed generally as indicated on the contract drawings, and suitable manholes for drawing and splicing the wires or cables and for other work necessary in connection therewith, will be built, generally at the intersection of the cross streets. All manholes for ducts shall be waterproofed.

Trolley Rails Provided.

One or more trolley rails or tracks shall be provided, attached to the roof of the galleries, in accordance with detailed plans to be furnished, for the convenient handling and transportation of pipes and materials.

Ends of Work Bulkheaded.

At any end of the railroad, if ordered by the Engineer, substantial waterproofed bulkheads shall be erected to protect the work and to prevent settlement of the streets, etc., and the Contractor shall keep the railroad entirely free from water until its final acceptance by the Commission.

Connections with Other Sections.

Proper provision must be made as directed by the Engineer for suitable connections or junctions with other sections of the railroad of which this section is a part; and where other sections are finished in advance of this contract all work necessary for making such connections in a perfect manner must be done, and the connections made by the Contractor.

Lines and Grades.

During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work.

Detailed Drawings.

The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work shall be done upon said working or shop drawings until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

2—Manner of Prosecution.

Permits.

No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. Such permits are to be in such form and cover such sections of the work as the Commission shall prescribe.

When to Be Filed with Borough President.

Before any opening is made in the surface of a street, a copy of the permit issued by the Commission must have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Rapidity and Safety.

All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with the public travel.

Width of Excavation.

Special care must be taken to diminish damage wherever open excavation is permitted, and the width of such excavation must not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work.

Night Work.

Wherever, in the judgment of the Engineer, subject to review by the Commission, traffic or other local conditions demand, the work shall be prosecuted during the night only or during both night and day; and at all points the Commission shall have power to require the Contractor to so conduct his work that it shall not remain open or obstruct traffic an unreasonable length of time. In addition to the above general requirements the Contractor shall conduct his work in compilance with the following special requirements:

Work Begun.

Work of excavation shall not be begun at any point until the Contractor has given reasonable assurance to the Engineer in writing that the material needed for construction at such points has been acquired and is on hand.

Shafts and Dumping Platforms.

Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., must be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Number of Shifts.

When work has been begun the same shall be prosecuted with all possible energy with at least two (2) shifts of eight (8) hours each every working day.

Street Intersections.

On all parts of the work street intersections must be kept at all times open to traffic for at least one-half the width of the cross roadways, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width, and such other portions of the street intersections as may be opened by the permission of the Commission must be kept substantially and neatly bridged for foot traffic; and the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Open Trench Excavation, Where Permitted.

The Contractor will be permitted to prosecute his work generally in open trench excavation on Fourth avenue; but he must at all times keep at least one side of the avenue, between the park curbs and the sidewalk curbs, open for public traffic.

Within the park areas on Fourth avenue the Contractor will be permitted to prosecute his work in open trench excavation.

Facilities for Travel.

All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Parks and Parkways, Trees, etc.

In any park or parkway or where any grass plots or trees exist along the street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. Such trees as are found along the line of the route and between the necessary side lines of excavation are to be properly supported in place, if in the judgment of the Engineer such trees can thereby be saved. For every tree removed, injured or destroyed the Contractor shall set out a new thrifty tree such as the Commissioner of Parks may require and in such a position as he shall indicate. All roads, cross paths, grass plots, shrubbery and other plants removed or affected by the construction of the railroad shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

In replanting trees and the replanting of grass plots the Contractor must be governed by the requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be as approved by such authorities.

Access to Buildings, etc.

No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and where streets are open suitable bridges must be built and maintained to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Vaults Disturbed.

Wherever vaults are broken through or otherwise disturbed, the Contractor shall erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Temporary Pipes, etc.

Temporary water and gas pipes, if laid above the street or sidewalk surfaces, must be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

Openings for Ventilation.

Wherever the excavations are boarded over, suitable openings must be provided for proper ventilation where gas pipes are maintained in service or where gases are liable to accumulate under the roadway. These openings shall be placed as directed by the Engineer, and they must be substantially protected in order to prevent accidents.

Close Observance of Above Conditions.

The Commission will insist on the close observance of the requirements of the above conditions in reference to keeping certain portions of the streets covered during the prosecution of the work, and that ordinary travel be not interfered with, excepting at such time, and in such manner, and in such places as the Engineer (subject to the review of the Commission) in writing may permit.

Restoration of Street Surfaces.

As the structural work nears completion, on the several parts of the route, it will be necessary to restore the street surfaces and sidewalks to their original condition. It will then become necessary to remove the temporary street coverings, or bridging, in order to complete the backfilling, and to build and readjust such appurtenances of subsurface structures as will necessarily come to the surface.

Such work must be done expeditiously, and only at night if so directed by the Engineer and during such hours as he may designate. It must be done as directed by the Engineer from time to time, and in sections of such limited extent as will permit its proper execution, and at the same time interfere least with the general street travel and with the convenience of the abutting property owners. In all cases, however, at least one-half of the roadway where such work is being done must be kept open for public traffic.

Storage on Cross Streets.

No materials of any nature shall be stored along the sidewalks of Fourth avenue. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of structural material may be stored such as may be absolutely necessary to avoid delay in construction; but such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Removal of Buildings, etc.

Whenever it shall be necessary in the progress of the work to remove buildings or building material, such work shall be deemed to be included within this contract, and the Contractor shall promptly, upon the direction of the Engineer, remove such buildings or building material as may be within the limits of the work. In case along any part of the work the City shall have acquired property and shall have failed to remove the buildings thereon, the Contractor shall, upon the order of the Engineer, proceed with the work of shoring up or otherwise adequately supporting such buildings.

3—EXCAVATION.

Access to Fire Hydrants.

Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Depth of Trenches.

Trenches shall be excavated to such depth as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Material Stored.

Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored within the limits of the park areas; but the disposition of such material shall be at all times subject to the approval of the Engineer.

Material to Be Removed to Specified Places.

All excavated material not required for the construction of the subway shall, if directed by the Commission, be taken to the site of the Eighth Ward Public Market at the water-front, foot of West Thirty-sixth and West Thirty-seventh streets, or to the water-front of Bay Ridge parkway, and there deposited as directed by the Engineer; provided that the work of rehandling at any of these points other than dumping shall be done by the City and with reasonable dispatch.

Removed Expeditiously.

Excavated material shall be removed expeditiously and disposed of, except as stated above, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the harbor of New York.

Material Watered.

All material that with the permission of the Commission may be left temporarily in the street, shall be watered by the Contractor when so directed by the Engineer.

Waste Material.

Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such material be allowed to accumulate in the trenches.

Temporary Tramways.

For the purpose of facilitating construction and to diminish the period of occupancy of any street for the transportation of material, the Contractor may, with the approval of the Commission, lay, upon or over the surface of any street, temporary tramways to be used only for the removal of excavated materials and for the transportation of materials for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Carts to Be Tight.

All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over the top. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Width of Excavation.

All excavations shall be of such width, in addition to that of the railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Buildings Underpinned, and Sides to Be Secured.

To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and by underpinning of adjacent buildings. The right is reserved by the Commission for its Engineer to order such methods of construction or of underpinning, pneumatic or otherwise, as special conditions may require. Unless specially directed by the Engineer, the Contractor will not be required to remove rangers or draw sheeting.

Fill Back of Sheeting.

Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting wherever possible, and if so ordered by the Engineer, must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Pumping.

Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means, approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Rock Excavation.

There are no indications that rock will be encountered on any part of the work; if, however, rock should be found or boulders or old masonry work requiring blasting, the work of removing same shall be carried on as herein provided.

Blasting.

Whenever rock or material requiring blasting is encountered in any trench or tunnel all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used.

Near Pipes and Mains.

Whenever any pipe or main is encountered in or alongside of the trench right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Reckless and careless blasting causing the rock to break beyond the established line for excavation will not be permitted.

Rock Measurement.

Whenever rock is encountered in the trench it shall be stripped of earth in sections of not less than twenty feet; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Boulders.

Boulders containing one-half (½) cubic yard or more of masonry encountered within the line for excavation will be measured as rock excavation.

Storage of Explosives.

No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and such supplies shall be divided as far as possible and kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather special precautions shall be taken as to the care and manipulation of dynamite.

4—BACKFILLING.

Quality of Material. How Placed.

The trenches at the sides of and over the top of the subway and wherever backfilling is necessary shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be deposited in layers not exceeding nine (9) inches in thickness, and then be well moistened with water and thoroughly packed by suitable rammers or rollers, and in such manner that no unbalanced pressure can be thrown upon the subway or any sewer, pipe or other subsurface structure.

At such places as in the judgment of the Engineer backfilling cannot be effectively done as provided above the material must be placed and compacted by flooding with water.

Subsurface Structures. Frozen Material Not Permitted.

Whenever pipes, sewers or other subsurface structures are met with the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

As fast as the work of filling permits sheeting and other timber supporting the sides of the excavations, as may be directed by the Engineer, shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled.

5—Piling and Timbering.

Piles.

Where the excavation is in wet ground, if in the judgment of the Engineer the ground is of such a character as to require piling, the Commission may direct the Contractor to drive piles. Such piles shall be of good, sound oak, pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Grillage.

Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

All piles, whether of timber or concrete, and all timber grillage foundations, ordered by the Commission and not shown on the plans shall be paid for as extra work.

Timber for Temporary Purposes.

All timber used for sheeting, shoring, bracing, bridging, or other temporary purposes, shall be sound and free from any defects that may impair its strength. The top or wearing surface of all bridging used for carriageways shall be of oak or hard yellow pine, sound, straight and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

6—Masonry.

Laid in Portland Cement.

All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

During freezing weather such masonry only will be built whose construction, in the judgment of the Engineer, cannot be postponed, except at the cost of delaying the work. The Contractor must provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin, or by such material or in such ways as may be necessary to insure it against freezing.

Pointing.

Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Hot Weather.

During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Defective Masonry.

Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

7—Cement.

Portland Cement.

Portland cement, slow or quick setting, as directed, and equal in quality to the best grade of American Portland cement, shall be used, and must be delivered in such packages as may be approved by the Engineer, with the name of the manufacturer plainly marked thereon.

Brand to Be Approved.

Before any cement is used the brand and name of the maker must receive the approval of the Engineer, and no cement will be used that is not in all respects satisfactory to him.

Inspection.

All cements used shall be subject to inspection at the place where manufactured, or on the work, and to such tests as may be ordered by the Engineer; preference will be given to cements, however, which by their records show a tendency to develop strength steadily for long periods, unless for special purpose cement is required that will develop great strength in a short time.

Cement before being used must pass inspection as to the following requirements:

Fineness.

Ninety-two (92) per cent. by weight shall pass a No. 100 sieve, and seventy-five (75) per cent. a No. 200 sieve.

All tests shall be made with paste or mortar of standard consistency.

Tensile Strength.

Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days, one (1) day in air, six (6) days in water, of not less than four hundred and fifty (450) pounds; and at the end of twenty-eight (28) days, one (1) day in air, twenty-seven (27) days in water, of not less than five hundred and fifty (550) pounds.

Briquettes when composed of one (1) part of cement and three (3) parts of Ottawa sand, shall have at the end of seven (7) days, one (1) day in air, six (6) days in water, a breaking strength per square inch of sectional area, of not less than one hundred and eighty (180) pounds; and at the end of twenty-eight (28) days, one (1) day in air and twenty-seven (27) days in water, of not less than two hundred and seventy-five (275) pounds.

Chemical Analysis.

Chemical analysis will be made from time to time, and cement furnished must show a reasonably uniform composition, and shall not contain more than 1.75 per cent. of anhydrous sulphuric acid ($S O_3$) nor more than 4 per cent. of magnesia (Mg O).

Soundness.

Tests for soundness will be made as follows:

Tests for checking and cracking and for color will be made by moulding on plates of glass, cakes of neat cement about three (3) inches in diameter, one-half (½) inch thick in the centre, and with very thin edges, kept in moist air for a period of twenty-four (24) hours. One (1) of these cakes when set perfectly hard shall be put in water of about seventy (70) degrees Fahrenheit, and examined for distortion or cracks, one (1) shall be kept in air and examined for color, distortion and cracks, and one shall be exposed to an atmosphere of steam above boiling water, in a loosely closed vessel for five (5) hours. These pats shall remain hard, and show no signs of distortion, checking or disintegration.

Increase in Strength.

Neat briquettes must show a minimum increase in strength of ten (10) per cent., and sand briquettes twenty-five (25) per cent., from the tests at the end of seven (7) days to those at twenty-eight (28) days.

Methods of Storing.

The Contractor must at all times keep in store, at some convenient point in the vicinity of the work, or at the place of manufacture, should the Engineer so elect, a sufficient quantity of cement to allow ample time for tests to be made, and the Engineer shall be notified at once of each delivery. Cement shall be stored in a tight building, each cask or package being raised several inches above the ground by blocking or otherwise, and ample storage room must be provided so that each separate lot of not more than one hundred (100) barrels can be stored so as to make it convenient to identify each individual lot in case of its rejection, or in case of the necessity for further tests.

Access to Stores.

Access shall be given to the Engineer and properly authorized members of his staff to enter at any time any and all places where cement is manufactured or stored, in order to identify the same, or to inspect the method of manufacturing, storing and protection; all packages shall be properly marked for identification.

8—Mortar.

Cement and Sand.

Cement and Sand. Mixing.

All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water will then be added, so as to produce a stiff paste. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; for station finish work, as specified under stations; and for other classes of work, as directed by the Engineer.

9—Concrete.

How Composed.

The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dirt and dust, and mixed together with the proportion of mortar specified below.

Sand.

Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Stone for concrete shall be sound screened gravel or sound hard broken limestone, trap rock or gneiss. Gneiss, however, may only be used of selected quality practically free from mica.

Size of Stone and Gravel.

Broken stone or gravel shall contain no pieces which will not pass through a ring one and one-half (1½) inch in diameter, unless otherwise specifically permitted by the Engineer; it shall be screened over ¼ inch mesh screen to remove the dust.

Rubble Concrete.

In concrete where the thickness is thirty (30) inches or more, if approved by the Engineer, the Contractor may imbed in the same broken pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones are to be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

The proportions of cement, sand and stone used in making concrete shall be as follows:

Concrete in floor, sidewalls and roof, one (1) part of cement, two and one-half (2½) parts of sand and four and one-half (4½) parts of stone when machine mixed; when mixed by hand one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone; or, one (1) part of cement and five (5) parts of sand.

Mixing by Machine.

Whenever practicable, concrete shall be mixed by machine. The mixing machine shall be of a pattern approved by the Engineer and mixing one batch at a time.

Mixing by Hand.

When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or working. Special tamping bars or tools shall be used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Concrete on the roof, or any part to which waterproofing is to be applied, shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleared.

Before laying concrete on rock surfaces, the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface must be left rough to form a bond with the new work; and in any jointing of old and new work, if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, and a coating of mortar or cement shall be applied before placing the concrete if so ordered.

Joints Cleaned.

In all cases of joints of old with new work the old surfaces shall be first thoroughly cleaned and wet.

Forms.

Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt and shall present to the concrete on the surface afterwards exposed to sight, a perfectly smooth face. The forms shall be made of wood, kept carefully smoothed; or made of metal sufficiently thick to retain their shape without the use of wood.

No forms made of wood and covered with iron will be permitted.

The forms if made of wood, shall be made of boards with close-fitted matched joints.

For those faces of the concrete that are to remain exposed the inside faces of the forms that are in contact with the concrete are to be planed in order to give a smooth and even finish to the work, and if so directed by the Engineer these portions of the forms are to be of tongued and grooved boards.

Precautions in Placing.

Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected Defective Work Replaced.

The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer it may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete of mortar in such proportions and in such manner as the Engineer may direct.

Surfaces Not to be Painted.

The exposed faces of the concrete, excepting within station limits, will not be painted, but will be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view.

10—Brick Masonry.

Quality.

Bricks for all masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Hollow terra cotta blocks or bricks may be used in station work on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in the station) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brick-work, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

All unfinished work must be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

11—Stone Masonry.

Footings for Columns.

In general columns will be set on a concrete base; in special cases, however, footing stones may be required.

Footing Stones. To Be Set High.

If footing stones for columns are required they shall be of the dimensions and shapes shown on detailed plans, which will be provided; they shall be strong and free from defects, and shall be set in cement mortar. Before being set the tops shall be rough-pointed without chisel draft, the vertical sides shall be left quarry faced, the portion of the top where the column base plate is to rest shall be dressed true with pean hammers, and the top brought to a plane, so that at no point will it be more than one-eighth (⅛) of an inch from a straight edge laid across in any direction. In case the Contractor fails to set the footing stones true to line and surface, then they shall be set with their tops about one-eighth (⅛) of an inch above the grade called for by the plans, and not less than two (2) days after being set they shall have their tops dressed with pean hammers, so as to form accurate seats for the base plates of the columns.

Anchor Bolt Holes.

Holes shall be accurately drilled for anchor bolts, and filled with neat cement mortar after the bolts are set in place.

Columns during erection shall be set on iron shims, if shims are necessary; wooden shims are prohibited.

Where shims are used the voids under column bases shall be filled with cement grout consisting of one part of cement and two parts of sand.

Rubble or Other Masonry.

In case, during the progress of the work, any rubble or other masonry of a different class from that specified above, shall become necessary, and shall be required by the Commission, the same shall be constructed according to specifications applicable to the best work of such class, and according to the direction of the Engineer.

12—Waterproofing.

In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water. At other places free drainage shall be provided by hollow tile or broken stone.

The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid as herein elsewhere provided, and shall not be less than 4 inches in thickness.

In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

The term "ply" as used in these specifications shall mean a layer of treated woven fabric both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

The number of plies of waterproofing on the sides at the station shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Over the roof of the structure within station limits and over the tracks passing through the station within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, two (2) plies of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks, not exceeding two (2), to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies, should local conditions require it, may be increased as directed by the Engineer; not to exceed, however, six (6) plies.

Six (6) plies of waterproofing may be substituted for brick and asphalt mastic, if approved by the Engineer.

Asphalt Mastic.

Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped.

Quality of Pitch.

Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall select.

The coal-tar pitch shall be straight-run pitch which will soften at 70 degrees Fahrenheit, and melt at 100 degrees Fahrenheit, being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.105.

Quality of Asphalt.

The asphalt used shall be the best grade of Bermudez, Alcatraz or lake asphalt of equal quality, and shall comply with the following requirements:

The asphalt shall be a natural asphalt or a mixture of natural asphalts, containing in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

The woven fabric to be used, together with the pitch or asphaltum for waterproofing, shall have been treated with pitch or asphaltum or another suitable material before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete To Be Dry.

All concrete shall be dry before waterproofing is attached. If for any reason it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall not be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric Waterproofing To Be Carefully Laid.

The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Skilled Labor To Be Employed.

None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

13—Drains and Pumps.

Railroad To Be Drained.

Every part of the railroad, the station and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Where the railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the railroad and draining into the sewers.

Subdrains.

Along such parts of the work where the soil is not porous, or where the floor of the railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent

back rush of water or gas from the sewers. Connections with the railroad shall be as necessity demands, and all as directed by the Engineer. Where the railroad is in rock, or partly in rock, cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct.

Sumps.

Whenever the grade of the railroad passes below the bottom of adjacent sewers there shall be constructed a sump connected with the subdrains or the floor of the railroad. Such sump must be watertight, with a capacity of not less than eight hundred (800) gallons.

14—STEEL AND IRON.

Open Hearth Process.

Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. (Max.)	.05%	.04%	.05%
Mn. (Max.)	.60%	.60%	.80%
Si. (Max.)	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000± (Min.)
Yield point	55% Ult.	55% Ult.	35000± (Min.)
Elongation	1500000 Ult. Str.	1500000 Ult. Str.	20% in 2"
Fracture	Silky.	Silky.	Fine granular.
Cold bend	180° flat.	180° flat.	120°(d.=3+.)

The yield point shall be that strain beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable, the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for bending shall be cut from the material as rolled.

Rivet rods shall be tested as rolled.

For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

In determining the ductibility, the elongation shall be measured after breaking on an original length, as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

For rollers the specimens shall be cut from the finished bar, so that the centre of the specimen shall be one inch from the centre of the bar.

For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

A variation in weight of any piece of steel of two and one-half per centum (2½ per cent.) from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Each finished piece of steel shall be marked with the melt number.

WROUGHT IRON.

Double Rolled.

All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) pounds per square inch, and a yield point of twenty-six thousand (26,000) pounds per square inch. It shall bend one hundred and thirty-five (135) degrees, with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern. Tests.

All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attend the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds, with a deflection of at least one-tenth (1-10) of an inch before rupture

WORKMANSHIP.

Quality.

All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1-16) of an inch the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the material is to be subpunched and reamed, a punch of diameter three-sixteenths (3-16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1-16) of an inch greater diameter than the rivet to be used.

Subpunching and Drilling.

All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be subpunched and reamed. All other material may be direct punched.

Sheared Edges.

Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Rivets when driven shall completely fill the holes and shall be machine driven wherever possible. They shall have full concentric heads or they shall be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turnd to a driving fit.

Templates.

All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be subpunched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Finished members shall be true and free from kinks, twists or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of strain, so as to insure even bearings.

Stiffeners.

Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Rollers and Bed Plates.

Rollers shall be turned and roller beds and bed plates planed; the bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown on the drawings. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

The weight of every piece and box shall be plainly marked upon it.

Inspection.

Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Chemical Analysis.

Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analyses.

Check analyses shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

15—PAINTING.

All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

All iron shall be scraped free from scale, and receive one coat of approved paint as herein specified before leaving the shops. All surfaces which come in contact or

are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

The red lead shall be strictly pure, and shall contain at least 80 per cent. of true lead ($Pb_3 O_4$). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk belting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 dgrees Fahrenheit on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60 degrees Fahrenheit for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

All material to be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Red lead paint will be mixed in the proportion of 500 pounds of red lead to 6 gallons of boiled linseed oil, and 12 gallons of raw linseed oil.

Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed, but not painted, before being incased in the concrete.

Second Coat Carbon Paint.

The second coat of paint shall be a black carbon paint, or such other paint as may be approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon. It shall be applied to such parts of the metal as the Engineer shall direct.

Metal to Be Cleaned After Erection.

After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted, as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

The exposed members shall be given a third coat. Between stations, this shall be black carbon paint, but for the stations, and for 30 feet each way therefrom, see specifications for painting under the heading of the stations.

Third Coat, When Applied.

The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after the completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable.

Surfaces in Contact.

Surfaces of built-up members in contact, or inaccessible after assembling, shall be cleaned before assembling, and shall be painted with one (1) heavy coat of red lead. The parts shall be at once assembled for riveting, while the paint is still fresh.

All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth.

Inspection of Paint.

All materials for painting shall be subject to inspection and chemical analysis, and the detection of any inferior quality of material, or adulterant, shall involve the rejection of all such material and the scraping and repainting of such portions of the work as were painted with it.

The mixing and application of paint and the preparation of the surface before the application of the paint will be subject to the closest scrutiny.

No painting in rainy or freezing weather or on wet surfaces shall be permitted.

16—Ducts.

Quality. Size.

The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters calculated to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to strip the lead coating from the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1-16) of an inch.

Glaze.

The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

All ducts to be subject to inspection, both at the works and on delivery on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

The ducts shall be laid with a mandril of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandril to be left in each duct until the next succeeding duct is laid.

The ducts shall be laid with dowel pins where required.

The ducts shall be so laid that the centre of the holes to receive the electric cables shall, for each vertical section of duct, be laid on the same line vertically and horizontally, to an accurate and perfect alignment.

To Be Rodded.

After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts after being rodded shall be plugged with suitable plugs to be furnished by the Contractor.

Other Forms of Ducts.

Other forms of ducts may be permitted, such as iron pipe tubing or ducts formed directly in the concrete benches, by special methods during construction, but only under plans and methods approved by the Engineer.

Duct Manholes.

Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the railroad as necessary, in accordance with the location of the duct lines.

They may vary in form as may be necessary to accommodate the work to local conditions.

Duct manholes will be built at the ends of the stations to provide for the passage of the lines under the station platforms, and if found necessary on account of the lengths of station platforms, additional manholes will be constructed under the platforms.

At manholes the ducts will be laid to conform to plans.

17—Sewers.

In Accordance with Plans and Specifications.

All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grade, at the depths, with the connections, and in the manner as called for by these specifications and as shown on the drawings.

Change of Location.

If during the progress of the work it is found, in the opinion of the Engineer, impracticable to construct according to the contract drawings any sewers, manholes or other appurtenances, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains, galleries or pavements, unless specifically amended or exempted below, both along the route occupied by the railroad and elsewhere.

No Claims for Damages.

Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of Departments, either before or after the execution of this contract on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of its work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given in the completion of the work equal to the delay so occasioned, as elsewhere provided in this contract.

Size of Trenches.

The trenches for sewers and basin culverts, both in earth and in rock, in streets along the route of the railroad, shall have vertical sides and shall be not less than 6 inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than 6 inches wider on each side than the greatest external diameter of the sewer, but no trench shall be less than 4 feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the complete building of the sewer, unless by permission of the Engineer, and for the distance specified.

The excavation of trenches shall be fully completed at least 20 feet in advance of the laying of the sewer.

Sewers Protected from Blasts.

Should rock be encountered which requires blasting, the exposed end of the sewer shall, in all cases, be fully protected.

Trenches for Manholes and Receiving Basins.

Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than 6 inches larger than the greatest external dimension of the manhole or receiving basin.

In rock excavation, the trench shall be 6 inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations to Be Made Good.

Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary; and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber foundation shall be constructed as elsewhere provided in these specifications to support the sewer.

Inspection of Grades.

When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will thereupon cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized Inspector, and at no other time shall such construction work be done.

Trenches to Be Kept Free from Water.

The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

When tunneling for sewers shall be deemed advisable it shall be done in such manner as may be approved by the Engineer.

Gutter and Passageway to Be Kept Open.

At all times the gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to Be Kept Clear.

Where any crosswalk or roadway is cut by the trench it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of

the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

All curb, gutter, flagging, paving and macadam stones necessary to be removed which, in the judgment of the Engineer, are suitable to be used again shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to Be Maintained.

The Contractor shall provide for the flow of all sewers, drains and water courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Bricks.

In the construction of brick masonry none but the best quality of common brick, burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and all bats and bricks of improper quality are to be removed from the work. Bats are to be used only in manholes and closures.

How Laid.

The bricks are to be thoroughly wet by immersion immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line and the joints to be carefully struck on the inside.

All brickwork as it progresses shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Brick or Stone Inverts.

All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used on the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed nor withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling on the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and not less than 6 inches interior diameter, with hubs moulded for house connections, and of sufficient length to project at least 4 inches beyond the interior of the sewer, shall be built into the walls of brick sewers, and at such an angle as indicated on the plan or as the Engineer may direct.

How Built In.

They shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than 20 feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses they shall be not more than 15 feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Where the sewers to be built under this contract will be at a depth greater than 13 feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast-iron chair spurs, of the design shown on the drawings, not less than 6 inches in diameter and of the weight of extra heavy soil pipe, shall be used instead of vitrified pipe spurs. Where house drains are to be connected to these spurs extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point 13 feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Wherever the sewer passes under a station platform, pipe gallery or other structure extra heavy soil pipe shall be laid from the spur to the outside of such station, pipe gallery or other structure, brought up to a point 13 feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Where indicated on the plan, or if during the progress of the work it is deemed advisable to build sewers of concrete in place of brick, the Contractor, when directed by the Engineer, shall build such sewers of the kind and quality herein specified.

Steel Bars Used if Ordered.

Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place. If the Engineer so directs, the concrete for the invert shall be put into position and properly rammed into place against suitable forms or invert centres, which are to be removed when the concrete has become sufficiently set.

Invert to Be Protected.

The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work. All forms or moulds shall be made of the material, and shall be secured as elsewhere provided in these specifications.

Defective Work.

If any voids, or irregular or defective work, is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

No joints between different sections of the walls of a sewer shall in any case be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers. Quality of Pipe.

Pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

Six-inch pipes shall be not less than ⅝ of an inch thick; 8-inch pipes shall be not less than ¾ of an inch thick; 10-inch pipes shall be not less than ⅞ of an inch thick; 12-inch pipes shall be not less than 1 inch thick; 15-inch pipes shall be not less than 1¼ inches thick; 18-inch pipes shall be not less than 1½ inches thick; 24-inch pipes shall be not less than 2 inches thick; 30-inch pipes shall be not less than 2½ inches thick.

Lengths.

No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved Pipes.

When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length.

Hub and Spigot Pipe.

In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than 5 inches wide. Each collar must have an internal diameter of not less than ½ inch nor more than 1½ inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Pipes having spurs not less than 6 inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthen-ware covers set in mortar.

Risers.

The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Bends, siphons and special pipe shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be 4 inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than 15 feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of a sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

When pipe without hubs is used, the collar or ring shall lap equally the ends of each abutting pipe; each shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be thoroughly cleaned out and the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Sewers of iron pipe of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Wherever such pipes are laid under station platforms, pipe galleries or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms, pipe galleries or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curve and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points

indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than 8 inches in thickness and of the quality specified for brick masonry.

Fresh Work To Be Protected.

All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid (except as may be necessary in tamping the earth and refilling) will be allowed until there is at least 2½ feet of earth over them.

Pipes To Be Kept Clean.

The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes To Be Protected.

The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Manholes shall be built at such points on the line of the sewers and of the form, thickness and materials as shown on the plans. The masonry shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by special bluestone 8 inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar 1 inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than 12 inches below the flow-line grade of the sewer except as otherwise indicated on the plan. When additional foundation to that indicated on the plan is required, it shall be built as directed by the Engineer.

Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

The invert shall be built of vitrified brick, cut stone or concrete masonry, as directed by the Engineer.

Use of Bats.

A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than 2 feet above the bench at the bottom of the manholes nor more than 2 feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plan or as otherwise directed.

Manhole Head and Cover.

A cast-iron manhole head and cover of the quality specified for cast-iron and of the pattern adopted by the Presidents of the different Boroughs, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds; street manhole cover, 135 to 150 pounds; sidewalk manhole head, 300 to 310 pounds; sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

When the pavement of the street is asphalt the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer.

Sealed Manhole Heads and Covers.

All manholes in station platforms, pipe galleries, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to Be Completed.

The above described manholes, whether on brick or pipe sewers, shall in all cases be fully and completely built and fitted with their covers as the work progresses and as each is reached, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall commence not less than 12 inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

The flooring shall be of hammer-dressed North River bluestone flagging, not less than 3 inches thick, in two pieces, and shall be set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base while the latter is still soft and adhesive and before it shall have reached its first set, in such quantity that after thorough manipulation it shall be 1 inch in thickness.

Head Stone and Gutter Stone.

Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

A cast-iron trap of the form and dimensions indicated on the plan and free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers and in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as, in the opinion of the Engineer, may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Automatic flush tanks shall be built where located on the plans or where directed by the Engineer, and in accordance with the details shown on the contract drawings, or other details to be furnished by the Contractor, subject to the approval of the Engineer.

Water Service.

The Contractor shall, at his own expense, furnish all materials, perform all work and make all arrangements for the installation and connection of flush tanks with the water main, in strict compliance with the regulations of the Department of Water Supply, Gas and Electricity.

Waterproofing.

Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Back-Filling.

The back-filling of the trenches shall be done as provided elsewhere in these specifications.

Mortar.

All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

On the completion of each section of one hundred feet of sewer, the regrading and temporary paving over the same shall be done and all surplus earth, sand and rubbish shall be immediately removed. After the completion of the work a permanent pavement shall be placed over the entire length of the trench as provided elsewhere in these specifications.

Permits for Connections.

The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections.

Sewers, Etc., to Be Kept Clean.

During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor.

18—WATER MAINS.

Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

The pipes shall be circular cylinders, with the inner and outer surfaces concentric and of the full interior diameter required.

Hubs and Spigots.

The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

The seat or shoulder of the socket and the end of the spigot must be straight and even, so as to make a smooth joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be particularly tested at these points. No pipe will be received whose eccentricity at the spigot and socket ends, or either, exceeds one-eighth (⅛) of an inch.

The pipes shall be designated by dimensions of the interior diameter.

Bands, lugs, buttons or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

The straight pipe shall be twelve (12) feet long, exclusive of hub; all others as may be directed.

All the pipes shall be straight in the direction of the axis of the cylinder.

Thickness.

The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows

Forty-eight-inch pipes, 8,270 pounds each; 42-inch pipes, 6,860 pounds each; 36-inch pipes, 5,305 pounds each; 30-inch pipes, 3,940 pounds each; 24-inch pipes, 2,660 pounds each; 20-inch pipes, 2,005 pounds each; 16-inch pipes, 1,475 pounds each; 12-inch pipes, 1,015 pounds each; 6-inch pipes, 415 pounds each.

The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and, in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

The metal of which the castings are to be cast (which must be remelted in a cupola or air-furnace) shall be pig iron, made without any admixture of cinder iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

The castings shall be free from scoria, sand holes, air bubbles and other defects and imperfections.

Castings to be Clean.

The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes must be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Every pipe, branch and special casting shall be carefully coated inside and out with coal tar pitch and oil. Every casting must likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned the surface must be oiled with linseed oil, to preserve it until it is ready to be dipped; no casting to be dipped after rust has set in.

Pitch.

The coal tar pitch is to be made from coal tar distilled until the naphtha is entirely removed and the material deodorized with a mixture of five (5) or six (6) per cent. of linseed oil. Pitch which becomes hard and brittle when cold will not answer for this use.

Pitch of the proper quality having been obtained, it must be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and must be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch must, therefore, be frequently added, and occasionally the vessel must be entirely emptied of its old contents and refilled with fresh pitch.

Every casting must attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It may then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating must be tough and tenacious when cold on the pipes and not brittle or with any tendency to scale off.

Tests.

The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test will be made at the foundry and at the expense of the Contractor.

Weighed and Marked.

The casting will be weighed and the weight distinctly marked on the casting in white paint. The Contractor will provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which will be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound hemp packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a water-tight joint.

Lead.

The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption to be Given.

In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

19—PAVING.

Pavement to be Restored.

As soon as the work in any open excavation or trench made under this contract within a street shall have been completed, the trench backfilled and the backfilling thoroughly rammed in place and compacted, as provided under the clauses relating to backfilling, a temporary paving shall be laid and maintained in a condition satisfactory to the Engineer, and after the earth shall have, in the opinion of the Engineer, become sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as that existing previous to the commencement of construction.

Other Pavement May Be Laid.

Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of The City of New York as may be in charge of street paving, to lay a better or other form of street pavement; or to make an arrangement with any property owner to lay another style of sidewalk in front of such premises in place of the pavement or sidewalk taken up; in which case the Contractor is to file with the Commission a copy of its contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties. In case the municipal officer in charge of street paving, or any property owner, desires to lay a pavement in any street, or a sidewalk along any street, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission in its discretion may direct the Contractor to finish and dress off the filling over its work to such grade as the Engineer may select, and further direct it to remove from the street all stones of whatever nature not required to be relaid, and to permit another contractor to lay such pavement or sidewalk; in which case the liability of the Contractor under this contract shall cease as far as that part of its work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the repaving as hereinbefore provided. The Engineer shall then report to the Commission the number of square yards of pavement thus disturbed, but not relaid, and the Commission will deduct from the amount named in this contract as the price to be paid to the Contractor such sum as the Engineer shall certify as the fair value of the expense of restoring the previous pavement.

20—MAINTENANCE OF STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Surface and Subsurface Structures to be Maintained.

The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for their usual service and to the reasonable satisfaction of the owners, all elevated railroad structures, street tramways of whatever character, telegraph, telephone or electric light poles or wires, water and gas mains, steam pipes, pneumatic tubes, electric subways, sewers, drains, and all other surface or subsurface structures encountered during the progress of the work. The sidewalks, curbs, areas, vaults and stoops along the line of the work must also be protected from any injury; but should any injury occur to any surface or subsurface structure as mentioned above, or sidewalk, curb, area, vault or stoop, the Contractor shall fully restore the same to as good a condition as existed before the injury was done.

Notice to be Given.

Notice is to be given by the Contractor to all companies and the proper city officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice, and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

In the rearrangement of subsurface structures a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Owners of Structures May Do Work.

Whenever it becomes necessary to cut, move, change, or reconstruct any such structures as named above, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures, and should they so desire, by the owners themselves, at the expense of the Contractor: such expense not to exceed the actual and proper cost of labor and materials used, together with a reasonable allowance for the use of plant and tools not exceeding seven and one-half (7½) per cent.

Reasonable Dispatch.

All work of reconstruction or alteration, if performed by the City or owners, shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures. Failure to make such alterations within a reasonable time as shall be adjudged by the Commission, may be considered by the Contractor as a waiver on the part of said City or owners of the right to do said work.

Facilities to be Given to Make Extensions.

In the event of the owners or the City being required to make any alteration to their structures, as above provided, or in case they shall consider it necessary or desirable to make any further alterations in, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work, provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

21—STATIONS.

The contract drawings indicate the general plan and outline and the chief structural and decorative features of the station at Thirty-sixth street.

Station Plans Furnished.

As soon as possible after the letting of the contract, the Engineer will furnish to the Contractor full detail plans and such additional specifications as may be necessary. Said plans may vary in detail from the plans as shown on the contract drawings, in accordance with the local requirements.

The decorative features and details of the stations, however, will be in general harmony with and substantially similar, as far as possible, to the general details of the stations, as indicated on the above-mentioned contract drawings.

Materials of Construction for Underground Station Finish.

Marble, enameled bricks, face bricks, glass and glazed tiles, mosaic work, metal laths, Keene cement, plaster, cement floors, concrete, metal covered wood, woodwork, brass and iron grilles, railings, gates, toilet fixtures, lighting conduits and all other materials used in the decoration and interior finish of the stations shall be of the best merchantable grade of the respective articles, as approved by the Engineer, and shall be laid, fabricated and erected in the most approved manner by workmen especially skilled in their respective trades.

Marble.

All marble used for wainscoting or panels on the sidewalls of the stations, closets, toilet rooms and passageways, shall be "Pink Georgia," or its equal.

All marble lintels shall be "Green Veined Vermont," or its equal. All marble work shall be thoroughly anchored with brass wire anchors in a manner satisfactory to the Engineer. The space between the back of the wainscot and panel work and the masonry walls shall be filled in solid with Portland cement grout. All corners shall be curved to standard radii.

Brick Masonry Station Finish.

Enameled or face bricks shall be of an approved brick of the best quality. For common bricks see specifications for brick masonry.

Mortar.

Mortar for brick masonry station finish shall consist of: For common brick or hollow blocks, one (1) part cement, three (3) parts sand; for face brick station finish, one (1) part of extra No. one (1) freshly burned and thoroughly slaked lime of an

approved brand and sand in proportion to properly work under the trowel, and one (1) part of cement, colored to match the face brick. The lime and sand are to be mixed together, and the cement added as it is being used.

Tile and Mosaic Work.

The tile and mosaic work shall consist of scratch coat, straight tile, bull nose and bent tile conforming to standard radii, "art ceramic" or glass tile mosaic bands, friezes, pilasters, panels and name tablets.

The tile work shall consist of opal glass or white glazed tile or other approved material, white or colored. All tile shall be brought to the work in large quantities and care taken to avoid strong contrasts in color. No broken or imperfect tile shall be used and the tile work shall be perfectly true, plumb and straight. Tiles shall be furnished in such dimensions as designated. All corners shall be finished with tile curved to standard radii.

The mosaic work shall consist of "art ceramic" or glass tile mosaic or other approved material. It shall be furnished in such colors as may be selected, rendered into ornamental designs.

The tile and mosaic work shall be set in Portland or "plastic" cement as approved. Before the tile and mosaic work is set the walls shall be thoroughly cleaned and well wet and plastered with a scratch coat of cement mortar consisting of one (1) part of approved Portland cement and three (3) parts of clean sharp sand.

Concrete Finish.

The concrete in the station shall be finished as specified for finish under concrete.

Vault Lights.

The roofs of the stations, where under the sidewalks, shall, to as great an extent as possible, consist of what is known as vault lights. These lights shall be made with lenses not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer, and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame in every ten (10) delivered, as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and, if that fail, then the whole lot may be rejected. These frames must be set in place with cement, lead or other means to be absolutely waterproof.

Hollow Space in Walls.

In order to prevent any leaks, and, as far as possible, condensation, the Contractor must exercise great care in the construction of station walls and roofs. The walls above the platform level, when acting as retaining walls, shall be built of brick or concrete with a waterproof layer, all as described under the appropriate clauses in these specifications. The walls shall be constructed so as to contain a hollow space. The hollow space shall be obtained by lining the walls on the inside with a hollow terra cotta block or common brick facing wall four (4) inches thick, set away from the sidewalls two (2) inches distance. These hollow block or brick facing walls shall be laid as hereinbefore or after specified in order to provide clearway spaces for drainage from the top to the bottom of the walls. The hollow spaces in the wall shall be connected at the bottom by a pipe leading to the drains. Where directed, openings, protected by bronze gratings, shall be provided through the facing walls in order to permit the circulation of air in the hollow spaces behind them. On an average there shall be three (3) openings 2¾ inches by 4 inches in every fifteen (15) feet.

Where it shall become necessary to cut into or through the hollow blocks or bricks for the purpose of laying electric conduits or any other pipes or tubes, the spaces thus cut out shall be covered with galvanized metal lath, fastened to the hollow blocks with suitable fastenings, before any scratch coat or plastering is applied to the wall surface, thereby securing a clear opening behind the wire mesh for drainage.

Where enamel or face bricks are used in the facing walls, they shall be laid as specified for the common brick, except where otherwise specified to the contrary.

Laying Common Brick Facing Walls.

The hollow block, common brick, enamel brick and face brick facing walls shall be laid in running bond, with headers set hard against the station sidewalls, at least once in each square yard. All facing walls shall be anchored to the sidewalls in an approved manner.

Interior Wall Finish.

The interior walls of the stations, including all sidewalls of the stations, closets, toilet rooms, passageways, and the walls of the railroad for at least thirty (30) feet in both directions from the extreme ends of the platforms, shall be finished in marble, enameled brick, face brick, glass or glazed tile, "art ceramic," or glass tile mosaic, concrete, or such other material as may be approved by the Engineer. All materials shall be furnished in such dimensions and of such colors, and laid or set, as the Engineer may direct. In the designs of the stations, all angles formed by the intersection of the sidewalls, floors and ceilings shall be avoided by joining these surfaces by curves. In order that such curved surfaces shall present a smooth and workmanlike finish the Contractor shall supply special bricks, tiles or pieces of other materials curved to the radius used. All details of the station must be so arranged as to provide as few lodgment places as possible for dust and dirt, to facilitate cleaning and to permit, if desired, a thorough washing of all parts of the station and their approaches by means of a hose.

Ceilings.

The roof, except where constructed of vault lights, shall be formed in the ordinary manner as the roof of the railway, all carefully waterproofed. The ceilings over the platforms, mezzanines, passageways, closets and toilet rooms shall be constructed with an air space. Wherever possible this air space is to be obtained by lining the roof with hollow terra cotta blocks two (2) inches thick. The hollow blocks are to be laid, when the roof is constructed, so that a secure bond may be obtained between the hollow block linings and the concrete roof. This may be done by laying the blocks against the inside of the concrete forms, as directed by the Engineer, before the concrete is placed. Care must be taken that the hollow spaces in blocks are not obstructed with cement mortar or concrete.

Where hollow block is not used galvanized metal laths shall be attached to the roof beams or furred out from the roof in an approved manner, so as to leave an air space beneath the same.

Interior Ceiling Finish.

The interior ceilings on terra cotta blocks or metal lath, over the platforms, mezzanines, passageways, closets and toilet rooms, and on concrete over tracks for a distance of at least thirty (30) feet in both directions from the extreme ends of the station platforms, except under vault lights, shall be finished in cement plaster and Keene cement, or other approved material, applied in the following manner, or as directed by the Engineer:

On metal lath, one (1) scratch coat, one (1) brown coat and two (2) finish coats.

On terra cotta blocks, one (1) brown coat and two (2) finish coats.

On concrete, two (2) finish coats.

The brown coat and first finish coat shall be scored to insure a proper bond for the following coats. The scratch and brown coats shall consist of cement mortar of such proportions as directed by the Engineer. The two finish coats shall consist of the best grade of domestic Keene cement, or other material approved by the Engineer. The final coat is to have a smooth hard finish, and shall be in such colors as directed. All angles shall be coved.

Floors.

The floors of the stations shall be constructed as hereinafter specified, and generally shall be so arranged as to drain to the edge of the platform and thence into the tracks. Under special conditions, however, they shall be arranged to drain to one or more points as directed, where suitable and proper provisions shall be made for the removal of water used in flushing the same. In order to provide a space in which all floor drains, pipes, tubes and electric conduits may be laid, concrete construction under the finish shall be stopped at least six (6) inches below the finish floor grades at all points.

Floor Finish.

The floors of the station platforms, closets, toilet rooms, mezzanines and passageways shall be finished in concrete and cement of a minimum thickness of three (3) inches, composed of two (2) inches of concrete and one (1) inch of cement finish. The three (3) inch floor finish shall be laid upon a concrete foundation three (3) inches thick.

The materials and proportions shall be as follows:

Three (3) inch foundation concrete, one (1) part of cement, two and a half (2½) parts of sand and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Two (2) inches of concrete, one (1) part of cement, two and a half (2½) parts of sand and six (6) parts of not exceeding three-quarter (¾) inch broken stone.

Cement finish, one (1) part of cement and two (2) parts of coarse white sand.

The cement for the two (2) inch concrete layer and cement finish and the white sand may be special materials, approved by the Engineer; all other materials shall be as hereinbefore or hereinafter specified.

Method of Laying.

The top of the three (3) inch foundation concrete shall be left three (3) inches below and parallel to the finish floor elevations. After the foundation concrete has set, the two (2) inch concrete layer shall be spread to an even thickness and rammed so that its top surface shall be one (1) inch below and parallel to the finish floor lines. Before this concrete is set, lay the one (1) inch cement finish and trowel to a smooth uniform hard finished surface.

The floor shall be laid out in blocks about three (3) feet square. These blocks are to be formed by cutting through the two (2) inch concrete, before it has begun to set, with a tool which will make a quarter (¼) inch joint. The cement finish shall be marked with a suitable tool directly over the joint above described.

At the intersection of the floor and sidewalls a sanitary cove of two (2) inch radius shall be formed. The floor shall be kept moist and protected until perfectly set.

Stairways.

The stairways shall be supported or self-supporting stairways. Supported stairways shall consist of concrete steps built directly on concrete foundations. The thickness of the concrete between the bottom of the riser and the foundation shall be four (4) inches. The landings shall consist of a concrete slab four (4) inches thick laid on the concrete foundation.

Self-supporting stairways and landings shall be constructed of concrete reinforced with steel rods. All self-supporting stairways and landings shall be designed for working load of one hundred (100) pounds per square foot, with a factor of safety of ten (10).

The concrete shall consist of one (1) part of approved Portland cement, three (3) parts of first quality Cow Bay sand, or its equal, and five (5) parts of three-quarter (¾) inch trap rock or clean gravel of a mixture of paving and roofing sizes. The steel shall be cold twisted square steel bars.

All treads and landings shall have a granolithic finish one (1) inch thick into which shall be worked the most approved form of treads to prevent slipping. The risers are to be paneled and washed with a cement grout and rubbed down to a hard even finish. The cement grout shall be applied before the concrete thoroughly sets. The granolithic finish shall consist of one (1) part of Portland cement, one (1) part of finely crushed granite and one (1) part of sand colored with lampblack as directed.

At least as many stairways as are shown on the plans shall be provided for each side of the station. The stairways shall be of as great width as the local conditions will satisfactorily permit; they shall be entered from the sidewalks or from the parkways in the street.

Connecting Passageways.

Both the platforms of the station shall be connected with each other by two (2) overhead passageways, to enable passengers to have access to both station platforms.

Ticket Booths, Doors and Newsstands.

The ticket booths, doors and newsstands shall be constructed of metal covered wood with moldings independently applied, or such non-combustible material as may be approved by the Engineer. The ticket windows of the booths shall be glazed in plate glass, plain or frosted as indicated, and shall be enclosed with bronze grille. Plate glass coin shelves shall be provided.

No obstructions whatever shall be placed on the station platforms, within the lines of the station walls, excepting as may be approved by the Commission.

Hardware.

The hardware required for the ticket booths, doors, toilet rooms and newsstands shall be of solid bronze metal, without lacquer, and of weight, quality and design as approved by the Engineer.

Railings and Grilles.

The platform and stairway railings and grilles, and the stairway railings and hood at the street surface, shall be constructed of iron and bronze design in accordance with the plans accompanying the contract, and in a manner satisfactory to the Engineer. These plans, however, may vary in detail in accordance with the local requirements of the station.

Sanitary Arrangements.

Stations shall be equipped with two (2) toilet rooms, as indicated on the plans, plainly marked, for the use of women and men, respectively, and one (1) porter's closet. The women's rooms shall be furnished with not more than two (2) bowls, one (1) basin and one (1) floor drain; the men's with not more than two (2) bowls, two (2) urinals, one (1) basin and one (1) slop sink and one (1) floor drain. All the toilet fixtures shall be of the most approved design, and provided with most approved flushing devices. The doors leading to these rooms shall be equipped with self-closing springs. Each room shall have a ventilating pipe leading direct to the outer air, and covered either by a suitable cast-iron ventilating post set on the sidewalk, or in some other approved manner. A suitable chamber shall be furnished in the wall of the toilet room in which a small automatic fan may be installed.

The bowls and urinals shall be connected by means of cast-iron drain pipes to the main sewer. These drains shall be furnished with sufficient traps of approved design, set close to the fixtures, which traps shall be back-aired in an efficient and workmanlike manner, such back-air pipes terminating in the sidewalk, or other approved situation, and covered by suitable galvanized iron gratings.

Soil and Other Pipes.

All soil, waste, vent and water supply pipes, wherever possible, shall be run in specially arranged and accessible wall spaces between an outer marble or glass finish and the sidewalls of the toilets. Where considered necessary by the Engineer, back pressure valves may be required on the soil line. When it is impossible to connect the soil pipes directly to the sewer, sewage shall be discharged into a sewage sump of approved form and dimensions, in which an approved automatic sewage ejector may be installed. (The furnishing and placing of the ejector will not be included in this contract. All soil piping in connection therewith shall be provided as a part of the station construction, and from thence into the sewer. Between the wall spaces and the sewer all soil and supply pipes shall be run where possible in pipe troughs constructed under the station platforms. All water supply pipes shall be encased in asbestos or other approved non-conducting material, and all pipes exposed in the troughs or wall spaces shall be suitably painted. All pipes are to be concealed from view. The toilet room stalls shall be finished in marble or glass, as approved by the Engineer. All work must conform with the City building and health regulations, which are to be considered as part of these specifications.

Water Connections.

Both platforms of the station shall have connection with the water main so as to permit the attaching of hose for the flushing and washing of all parts of the station

and platform, waiting rooms and stairways, and to furnish an adequate supply for fire purposes.

Sewers Under Platforms.

Where it may be necessary to pass sewers or pipes, or both, beneath the station platforms, in order to reach the same for the purpose of inspection and repair, cast-iron frames capable of being lifted shall be inserted in the floor and the concrete of the floor so laid as to be exactly flush with the same.

Lighting Conduits.

Provision shall be made for the illumination of the station platforms, passageways, stairways, toilet rooms, ticket booths, electric signs, closets and mezzanines by supplying and erecting all the necessary conduits, outlet boxes, fittings and all other materials which are built into the structure, for the installation of an approved lighting system.

The lighting system shall be at least equivalent to that furnished by one 16-candle power incandescent lamp for each fifty (50) square feet of floor area. At all points on the station platforms and stairways the light shall, however, be not less than one-foot candle at a point three (3) feet above the floor, and the construction and location of lights shall be such as to give this degree of illumination.

(The transformers, wire, switches, fixtures, lamps and other electrical material and devices shall not be included in this contract.)

Ventilation.

Ventilating openings shall be constructed in the roofs of the stations. These openings shall be of such dimensions as indicated on the detailed plans, and shall be covered at the sidewalk surface with approved gratings, provided with non-slipping bars. The openings shall be so arranged as to exclude storm water from the station platforms; and where necessary and as indicated on the plans, vault light slabs or pans shall be placed and provided with proper drains.

Heating.

Provision for electric heating shall be made in all toilet rooms, ticket booths and news stands.

Pipes, Conduits, etc., Concealed.

At the station all signal wires, air pipes, electric conduits and wires, pipes or conduits for any purpose whatever shall be concealed from view behind the finished walls or ceilings, or under the platforms or platform overhangs in such manner as approved by the Engineer.

Station Painting.

All exposed metal work at the station and between the tracks opposite the station in the subway, and for at least thirty (30) feet from the ends of the station platforms, shall be thoroughly and evenly painted, after all other station finish work has been completed, with three (3) additional coats of paint besides the renewed shop coat. The first coat shall be the same as the first coat applied to all other metal work in the subway after erection, and the other two coats shall be of such character of paint and in such colors as may be designated by the Engineer.

22—General Clauses.

It is the very essence of the specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. To this end the mixing and placing of the concrete and the placing and protection of the waterproofing shall be as herein provided and as indicated on the plans.

Best Quality of Work.

All materials and workmanship must be of the best class in every respect as elsewhere provided in this contract, and the Engineer is to be the sole judge of their quality and efficiency.

Fences.

Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Work To Be Cleared.

At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him from all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Notice, How Given.

When the Contractor is absent from any part of the work where it may be necessary to give instructions; orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Lines and Grades.

The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer must be carefully preserved by the Contractor, who must give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Imperfect Work.

Any imperfect work which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer, notwithstanding that it may have been overlooked by the proper inspector.

In all work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work.

Notice Regarding Commencement of Work.

Before commencing work on any part of the route, whether on the railroad or on the sewers lying off the line of the railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured, in order that proper inspection may be arranged for.

If so requested by the Engineer in writing, countersigned by the Chairman of the Commission, a further reasonable delay in commencing work or manufacture must be granted, such delay to extend the time of completing this contract as named herein.

Conveniences for Men.

Necessary conveniences, properly secluded from public observation, shall be constructed and maintained wherever needed for the use of laborers on the works, to the satisfaction of the Engineer and the sanitary authorities.

Advertisements Forbidden.

The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

All barricades and bridges erected by the Contractor for the protection of the work or use of the public shall be substantial in character and neat in appearance.

Requirements of Borough President, etc., To Be Observed.

Whenever the construction of the works under the provisions of this contract shall interfere with, disturb or endanger any sewer, waterpipe, gaspipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Ordinances and Regulations.

In all operations connected with the work, all ordinances of the City, and of the Board of Health, which shall be valid and operative with respect to work on the Rapid Transit Railroad, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, must be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and harbor of materials used in, or in connection with the work.

Condemned Materials To Be Removed.

If the work or any part thereof, or any material found or brought on the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith rebuild or remedy such work and remove such materials as may be directed by the Engineer.

Competent Men.

The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that any man on the work is in his opinion incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

V.—Security to Be Furnished By Contractor.

Security by Contractor. Contractor's Bond.

Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in due form executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of one hundred and fifty thousand dollars ($150,000). In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within thirty days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such thirty days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule—then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days substitute such new securities, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or its sureties, the Commission may require the Comptroller to deduct from any moneys then due or which may thereafter become due to the Contractor under this contract, the amount of the original valuation of such securities objected to, and to hold such amount in lieu of such securities, as if part of the original deposit or as if deposited with the Comptroller as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon the contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

When Contractor May Substitute Cash or Securities.

If and as the Commission shall consent, and the law permits, the Contractor may, from time to time substitute cash for securities or securities of the character aforesaid for cash, but always so that the total amount and value of the deposit shall not be reduced.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall account for the same as hereinafter provided.

The said deposit, whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another Contractor or Contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be as much as ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale, all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten days after notice from the Commission so to do shall (unless the time be extended by the Commission) by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss caused to others by the negligence, fault or default of the Contractor, for which it shall be claimed

that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

Return of Cash or Securities.

When the Contractor shall have fully completed the works according to the terms of this contract and the Commission shall so certify, the Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned, and the Contractor shall also then be entitled to the payment of a sum which shall be equal, as the case may be, either to the interest on the said deposit (if made in cash) from the time of such deposit at the average rate of interest received by the City on its bank balances during the period of such deposit, or to the interest, dividends or other income which the City shall have received from the said securities, together with interest on any such interest, dividends or other income so received by the City from such securities from the time of its receipt at the average rate of interest received by the City on its bank balances during the period of such deposit. If, however, any of the cash so deposited shall have been used or applied for any of the purposes above mentioned then the Contractor shall not be entitled to credit for interest on the amount of cash so applied from the time of such application.

VI.—Payments to Contractor.

Payments, How to be Made.

The City shall make payments to the Contractor on account as the work progresses, upon vouchers certified by the Commission. Written requisitions by the Contractor for such payments shall be delivered to the Commission at intervals of not less than one month. Each requisition by the Contractor shall be accompanied by a certificate of the Engineer to the effect that work has been done and materials have been delivered in accordance with the terms of the contract at or upon the works prior to the time of such requisition of an estimated value stated in such certificate. Such value shall be ascertained relatively to the contract value of the entire work.

The Commission shall thereupon forthwith prepare and certify a voucher in due form for payment by the City for 90 per cent. of the estimated value of the work so done and materials so furnished. The Commission shall not be bound by the certificate of the Engineer, but may in every case fix the amount due at such sum as the Commission shall itself determine to be 90 per cent. of the proper actual relative value of such work and materials. The amount so certified by the Commission shall be forthwith paid by the City to the Contractor without any deduction except as herein otherwise provided. In case the Contractor shall be dissatisfied with the determination of the Commission as to value as aforesaid, the Contractor may, within twenty days after notice of such determination, appeal therefrom in the manner hereinbefore provided for appeals from determinations of the Engineer as to additional work, and the receipt by the Contractor of the amount certified by the Commission shall not be deemed a waiver of the right to appeal. And, if the payment upon such appeal shall be determined to be too small, then upon such determination the City shall forthwith and upon a voucher certified by the Commission pay to the Contractor the additional amount awarded upon such appeal.

Final Certificate and Final Payment.

Whenever and as soon as the Contractor shall have completed all work of Construction under this contract, the Commission shall make a certificate in writing stating that the work has been completed and accepted, and stating also the amount payable for all the work of every kind done under and according to the terms of this contract. On the expiration of forty days after the filing of such certificate in the office of the Comptroller, the City shall pay to the Contractor in cash the amount remaining after deducting from the amount stated in the last mentioned certificate (1) all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and (2) all such sums as by the terms hereof the City is at that time authorized to receive or retain. The City shall also at the same time surrender the Contractor's bond, or any cash or securities deposited instead of such bond. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate.

Final Payment to Terminate Liability of City.

The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, the Commission and each of them and their agents, from all claim and liability to the Contractor for anything done or furnished for or relating to the work, or for any act or neglect of the City or of any person relating to or affecting the work, except the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claim for Damage. Statements of Damage to be Filed With Engineer.

If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the naure of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Evidence that Labor and Materials Have Been Paid For.

The Contractor shall furnish the Commission with satisfactory evidence that all persons who shall have done work or furnished materials, and who shall have given written notice to the Commission before, or within ten days after, the final completion of the works, that any balance for such work or materials is due and unpaid, have been fully paid and satisfactorily secured; and in case such evidence is not furnished as aforesaid such amount as may be necessary to meet the claims of the persons aforesaid may be retained from the money due to the Contractor under this agreement until the liabilities aforesaid shall be fully discharged or such notice or notices withdrawn.

Liens for Work or Materials.

If at the time of any requisition any lien shall have been filed against the Contractor on the railroad or any part thereof against the amount payable to the Contractor under the provisions of this contract by any person or corporation entitled to file the same for work, labor, or services done or performed, or for materials furnished to the Contractor in or about construction of the railroad, an amount reasonably sufficient to pay and discharge such lien and to pay the costs of foreclosure thereof shall be retained by the Comptroller from the amount which would be otherwise payable to the Contractor on such requisition, until the said lien shall be discharged or secured as provided by law. If such lien shall be foreclosed according to law then the Comptroller may pay the said amount found due upon such lien by the judgment in the foreclosure action to the person entitled thereto, and such payment shall be deemed a payment hereunder to the Contractor. If the sum so retained shall not be sufficient to discharge the lien so foreclosed, the deficiency shall be retained by the Comptroller out of the next moneys coming due to the Contractor.

VII.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

The Contractor admits and covenants to and with the City that the plans and specifications and other provisions of this contract for construction, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures; and the Contractor shall at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures. But this covenant is not to be construed as applying to the foundations, walls or other parts of buildings erected upon private property through which the railroad or any station entrance or approach shall be constructed.

Engineer May Order Adjacent Property Supported.

The Contractor shall obey any order of the Engineer to support or secure adjacent property or any surface or structure thereon; but the Contractor shall not be relieved of responsibility either by compliance with any such order, or by any failure or omission of the Engineer to give any such order or to give notice of any danger.

Traffic to Be Maintained.

The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places in connection with the work as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

The Contractor shall save harmless the City against and from all damages or costs to which it may be put by reason of injury to the person or property of another or others, resulting from negligence or carelessness of the Contractor or of any subcontractor or other person employed on the works, either in the performance of the works or from guarding the same, or from any improper materials used in its construction, or by or on account of any other act or omission of the Contractor or any subcontractor or other person employed on the works; and shall fully meet and duly pay the amount of any loss or damage caused or done to the City or that the City may suffer from any injury to any person or the property of any person through the negligence, act or omission in the course of construction of the Contractor or of any subcontractor or other person employed on the works.

Money Due the Contractor May Be Retained to Meet Claims.

In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property caused by, or arising from, or alleged to have been caused by, or to have arisen from, any negligence, act or omission of the Contractor or of any subcontractor or other person employed on the work, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor.

Protection of Abutting Property Owners and Others.

It is the intent of this agreement that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent or abutting property, or of buildings or structures thereon and to all tenants of or persons in such buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or other persons have no legal claim against the City for such injuries. It is therefore further expressly agreed, and is one of the terms and conditions upon which this contract is awarded to the Contractor, that in addition to all other liability for injuries to adjacent or abutting property, or to buildings or sructures thereon, or for injuries to persons, the Contractor shall fully meet and duly pay the amount of any direct damage that any abutting or other owners or other persons may suffer by reason of any physical injury to property or person occasioned by any act or omission of the Contractor or of any subcontractor or other person employed on the work; this clause of the contract being a separate and independent provision, dissociated from any duty resting upon the City, and having for its sole purpose the complete indemnification by the Contractor of all owners of adjacent or abutting property or of buildings or structures thereon, and of all tenants of and persons in such buildings or structures for any direct physical injury which may be done to their property or persons through any act or omission of the Contractor or of any subcontractor or of any other person in the course of any employment under the Contractor or any subcontractor in or upon the construction of the works or any part thereof.

It is understood that the injuries to property here contemplated are direct physical injuries only and not injuries to fee or rental value, and do not include loss of rents, of business, or of business profits, and that the measure of compensation shall be a sum sufficient to repair the injuries and place the property in the same or as good condition as it was before the injuries were occasioned.

In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above. Such certificate, filed with the Commission as above provided, shall be *prima facie* evidence of the condition of such building or buildings, and of the damage, if any, done thereto, in any action or proceeding brought under the provisions of this contract, by any owner, tenant or other person. The Contractor shall not be liable upon any claim for damages to property unless reasonable opportunity is afforded to the Commission and the Contractor, by the owner or tenant of the property claimed to have been damaged, for making examinations as above provided and for ascertaining the facts relative to the physical injuries alleged to have been sustained; or upon any claim for damages to property the owner or lessee of which refuses, upon reasonable demand being made upon the premises by the Engineer, to permit the Engineer and Contractor to enter thereon for the purpose of shoring up, protecting or underpinning the same or any adjoining building.

Damage to Works During Construction.

All risk of loss or damage to the works or to the materials therefor, prior to final completion, unless caused by the fault of the City, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VIII.—City to Secure Contractor Against Interference by Injunctions, to Acquire Real Estate, etc.

City's Assurances to Contractor of Right to Construct.

The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances. Provided, however, that the Contractor shall enforce his rights against the City under this provision solely by claim for money, and shall have no right to set up any failure or default on the part of the City to perform or satisfy this stipulation or covenant in defense, or by way of exculpation or any excuse whatsoever (otherwise than as a claim or counter-claim for money) of the Contractor for any default or failure of any character whatsoever on its part. Nothing herein contained shall be construed to require the Contractor to do any act in violation of a valid injunction issued by a court of competent jurisdiction forbidding such act.

Claims for Infringement of Patents.

The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance

and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein as may be needed, either permanently or temporarily, for the purpose of constructing the railroad or pipe galleries, including necessary station entrances and approaches, or to provide, lay or maintain conduits, pipes, ways or other means for the transmission of electricity, steam, water, air or other source or means of power or of signals or of messages necessary or convenient for or in the construction or operation of such road, or for the transportation of materials necessary for such construction, or to provide a temporary or permanent way or course for any such conduit, pipe or other means or source of transportation; and the City may also acquire any and all rights, privileges, franchises and easements, whether of owners or abutters, or others, to interfere with the construction of the railroad or to recover damages therefor, which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the railroad free of interference or right of interference.

IX.—Time for Completion, Damages for Delay, etc.

Commencement and Completion of Work.

Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within twenty-four months from the date of the delivery of this contract.

Price to be Reduced for Delay.

In the event of delay in completion of the works beyond the period herein prescribed, and in case any such delay shall not be excusable, or the period extended, as hereinafter provided, the City shall be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the several amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due), there shall be deducted and retained by the City as liquidated damages for such delay (and not as a penalty) one per cent. thereof for each and every month after the expiration of the said period until such amounts are severally certified to be due and payable. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any sub-contractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the counsel to the Commission shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Suspension of Work and Additional Time for Performance.

The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to Be Extended in Case of Delay in Acquiring Real Estate.

In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such necessity exists) begin and conduct with diligence proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three months from the delivery of such notice, then the period for completion of the works shall be extended for such a time as such completion is necessarily delayed by the failure of the Commission to furnish such real estate; but no allowance by way of damages shall be made for such delay. In any arbitration, suit or proceeding involving this clause of the contract the burden of proof shall be on the Contractor to show that the real estate which he described was in fact necessary.

Permission to Complete Contract Not a Waiver.

The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in nowise operate as a waiver on the part of the City of any of its rights under this contract.

X.—Remedies in Case of Contractor's Default.

Contractor's Default in Construction.

In case the Contractor shall fail to complete the works within the period above limited, or shall at any time fail to proceed with reasonable diligence, or so that it shall not be reasonably probable that the works will be completed within the period above limited, then and in any such case the Commission, upon notice to the Contractor of not less than thirty days, may—

City May Complete.

(1) By resolution declare the Contractor to be in default; and the City by the Commission, in addition to every, or in substitution for any other, remedy which it may have by law or hereunder, may thereupon forthwith, so far as the City may now have or may hereafter secure statutory power, procure by contract or otherwise, either for the Contractor, for his account and at his risk, or otherwise as the Commission shall determine, the completion of such construction, or, in any case where the Commission shall deem it for the interest of the City, the performance of any part of such construction; and the City may to the extent of the cost of such completion of the construction or of such performance or provision of any part thereof and interest on such cost, withhold and apply thereon any moneys otherwise due or to become due by the City to the Contractor, and the Contractor shall be liable to the City, and shall, as the Commission may from time to time require, forthwith pay to the City the excess, if any, of the cost to the City of the completion of such construction or of such performance or provision of any part thereof over the amount payable to the Contractor therefor under the terms of this contract, and also the amount, if any, which shall be due to the City by reason of any delay in completion of the construction, or in such performance or provision of any part thereof; or

Or Make New Contract.

(2) By resolution declare this contract at an end except as to the liability of the Contractor hereinafter in this paragraph provided, and make a new contract for construction, upon advertisement of a new invitation to contractors, upon such terms as the Commission may deem proper; the same to provide, among other things, that the new Contractor shall allow for so much of construction as has been already completed a reasonable amount, to be prescribed in such new contract or to be ascertained as in such new contract to be provided; and in such case the Contractor shall pay the City all damage which the City shall sustain by reason of such failure, including the excess, if any, of the amount which the City shall pay the new Contractor over the amount it would have had to pay the Contractor, party hereto, for the same work or materials, together with the amount, if any, which shall be due to the City by reason of the delay in completion of the construction; or

Or Proceed Upon Bond.

(3) The City may also proceed as to the Commission shall seem proper upon the bond, or with respect to the deposits of cash or securities made as aforesaid; or

Or May Bring Suit.

(4) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

XI.—Miscellaneous Provisions.

Changes in the Contract.

No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor, and if a bond shall have been given as aforesaid and be then in force, then also consented to by the sureties upon such bond; but this provision shall not limit or affect the right to prescribe variations of detail, whether of construction or location of route, as in this contract elsewhere provided.

Members of Commission Not Liable.

No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contract, When Assignable.

This contract shall not be assigned without the written consent of the Commission.

Provision in Case Commission Cease.

In case the Commission shall cease to exist, the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 506 of the Laws of 1906. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of Brooklyn, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect unless the Contractor shall comply with the provisions of this paragraph. In obedience to the requirements of section 13 of the Labor Law, it is further provided that if the provisions of the said section are not complied with this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof, the same shall be deemed of no effect, and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by a resolution duly adopted by the Commission, and the seal of the Commission has been hereto affixed and these presents signed by the Chairman and Secretary of the Commission; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers, the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By ..... Chairman.

Attest:

..... Secretary.

State of New York, County of New York, ss.:

On the day of , 1908, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary, of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally came , to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:

On this day of , 1908, before me personally appeared , to me known, who, being by me first duly sworn, did depose and say: That he resided in in the State of ; that he is of the , the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

CONTRACTOR'S BOND.

(Fourth Avenue Route, Twenty-seventh Street to Forty-third Street.)

[11-A-4.]

Know all men by these presents, that of , hereinafter called the Contractor, and and hereinafter called the Sureties, are held and firmly bound unto The City of New York, hereinafter called the City, in the penal sum of one hundred and fifty thousand dollars ($150,000), lawful money of the United States of America, to be paid to the City, for which payment, well and truly to be made, the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns, firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said one hundred and fifty thousand dollars ($150,000) and each of the said Sureties to be so held and bound only for a portion of said penal sum as follows:

The said for the sum of dollars ($); the said
for the sum of dollars ($); the said
for the sum of dollars ($); the said
for the sum of dollars ($).

In witness whereof, The Contractor and the Sureties have hereunto caused their respective seals to be hereto affixed and these presents to be attested by the proper officers of each of them which is a corporation, this day of , 1908.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a rapid transit railroad (including pipe galleries), known as the Fourth Avenue Route, in Fourth avenue and extending from Twenty-seventh street to Forty-third street, in the Borough of Brooklyn, in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof,

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defence upon this bond; that the Sureties shall not set up or have any defence upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defence to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

* The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

CONTRACTOR'S PROPOSAL.

[11-A-4]

(Fourth Avenue—Twenty-seventh Street to Forty-third Street.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors.
Copy of Form of Contract.
Copy of Form of Bond.
Schedule of Securities, filled up only if the bidder desires to deposit securities in lieu of cash.

To the Public Service Commission for the First District:

1. The undersigned* do hereby,

* If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract with The City of New York in the form therein referred to and perform all the work mentioned in the said contract and hereby agree to accept in full payment therefor the following sums, to wit:

For construction of the railroad (as these words are defined in the form of contract), including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

For construction of the pipe galleries, including the furnishing of all labor, materials and appliances required to do the work, the sum of dollars ($).

It is understood that the acceptance of the foregoing bid for pipe galleries is conditional on the acceptance of the above bid for construction of the railroad; but that the Commission may accept the bid for construction of the railroad and reject the bid for construction of pipe galleries.

2. It is understood by the undersigned that all of the above sums are subject to modification as provided in the above mentioned form of contract, and that payments are to be made when and as therein provided.

3. The foregoing bids are based upon the following estimate or schedule of quantities and unit values thereof, and are submitted in accordance with the invitation to contractors. In submitting this estimate, it is understood that the acceptance of this proposal by the Commission imposes upon it no obligation to make payments in accordance with such estimate of quantities and unit values or to value work done in accordance therewith.

RAILROAD CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices Therefor.**

Classified Items.	Quantity.	Price.	Amount.
Excavation—			
Earth above mean high water, per cubic yard	.....	$.....	$.....
Earth below mean high water, per cubic yard	.....	.....	.....
Rock above mean high water, per cubic yard	.....	.....	.....
Rock below mean high water, per cubic yard	.....	.....	.....
Piling and Timbering—			
Timber piles, per linear foot	.....	.....	.....
Concrete piles, per linear foot	.....	.....	.....
Grillage or foundation timber, per thousand (B. M.)	.....	.....	.....
Concrete, per cubic yard	.....	.....	.....
Brick Masonry—			
Common brick, per cubic yard	.....	.....	.....
Hollow terra-cotta brick, per cubic yard	.....	.....	.....
Stone Masonry—			
Cut stone, per cubic yard	.....	.....	.....
Footing stone, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per square yard	.....	.....	.....
With treated fabric, 3-ply, per square yard	.....	.....	.....
With treated fabric, 4-ply, per square yard	.....	.....	.....
With treated fabric, 5-ply, per square yard	.....	.....	.....
With treated fabric, 6-ply, per square yard	.....	.....	.....
Brick laid in asphalt mastic, per cubic yard	.....	.....	.....
†Drains—			
15-inch vitrified pipe, per linear foot	.....	.....	.....
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8 inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch or 3-inch vitrified pipe, per linear foot	.....	.....	.....
16-inch cast iron pipe, per linear foot	.....	.....	.....
12-inch cast iron pipe, per linear foot	.....	.....	.....
10-inch cast iron pipe, per linear foot	.....	.....	.....
8-inch cast iron pipe, per linear foot	.....	.....	.....
6-inch cast iron pipe, per linear foot	.....	.....	.....
4-inch cast iron pipe, per linear foot	.....	.....	.....
Steel and Iron—			
Riveted steel, per ton of 2,000 pounds	.....	.....	.....
Steel beams, per ton of 2,000 pounds	.....	.....	.....
Cast steel, per ton of 2,000 pounds	.....	.....	.....
Cast iron, per ton of 2,000 pounds	.....	.....	.....
Tunnel ducts	.....	.....	.....
Vault lights, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Wire mesh (expanded metal), per square yard	.....	.....	.....
Gas pipe handrail, per linear foot	.....	.....	.....
Total			$.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.
† Includes all specials and fittings.

Sewers Along Line and Off Line.

*Sewers.	Along Line. Lin. Ft.	Price.	Amount.	Off Line. Lin. Ft.	Price.	Amount.
6-inch cast-iron pipe	.....	$.....	$.....	.....	$.....	$.....
8-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
10-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
12-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
14-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
16 inch cast-iron pipe	.....	.....	.....	.....	.....	.....
18-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
20-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
24-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
30-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
36-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
42-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
48-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
54-inch cast-iron pipe	.....	.....	.....	.....	.....	.....
6-inch vitrified pipe	.....	.....	.....	.....	.....	.....
8-inch vitrified pipe	.....	.....	.....	.....	.....	.....
12-inch vitrified pipe	.....	.....	.....	.....	.....	.....
15-inch vitrified pipe	.....	.....	.....	.....	.....	.....
18-inch vitrified pipe	.....	.....	.....	.....	.....	.....
24-inch vitrified pipe	.....	.....	.....	.....	.....	.....
Egg-shaped Brick or Concrete—						
3 feet by 2 feet	.....	.....	.....	.....	.....	.....
3 feet 6 inches by 2 feet 4 inches	.....	.....	.....	.....	.....	.....
4 feet by 2 feet 8 inches	.....	.....	.....	.....	.....	.....
4 feet by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches by 2 feet 10 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches by 3 feet	.....	.....	.....	.....	.....	.....
4 feet 9 inches by 3 feet 2 inches	.....	.....	.....	.....	.....	.....
Circular—						
3 feet 9 inches	.....	.....	.....	.....	.....	.....
4 feet	.....	.....	.....	.....	.....	.....
4 feet 3 inches	.....	.....	.....	.....	.....	.....
4 feet 6 inches	.....	.....	.....	.....	.....	.....
4 feet 9 inches	.....	.....	.....	.....	.....	.....
5 feet	.....	.....	.....	.....	.....	.....
5 feet 3 inches	.....	.....	.....	.....	.....	.....
5 feet 6 inches	.....	.....	.....	.....	.....	.....
6 feet	.....	.....	.....	.....	.....	.....
6 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 3 inches	.....	.....	.....	.....	.....	.....
7 feet 6 inches	.....	.....	.....	.....	.....	.....
8 feet	.....	.....	.....	.....	.....	.....
9 feet	.....	.....	.....	.....	.....	.....
9 feet 3 inches	.....	.....	.....	.....	.....	.....
9 feet 6 inches	.....	.....	.....	.....	.....	.....
†Special Forms—						
6 feet by 8 feet 6 inches	.....	.....	.....	.....	.....	.....
7 feet by 13 feet 8 inches	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

* Includes all chambers, manholes, receiving basins, flush tanks and all appurtenances belonging thereto.
† Reinforced concrete.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20 inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total			$.....			$.....

	Quantity.	Price.	Amount.
Ducts, other than tunnel ducts, per duct foot	.....	$.....	$.....
Street railway track (single track), per linear foot	.....	.....	.....
Elevated railway columns, each	.....	.....	.....
Total			$.....

Stations.

Classified Items.	Quantity.	Price.	Amount.
Tile—			
Straight tile, per square foot	.....	$.....	$.....
Curved tile, per square foot	.....	.....	.....
Ceramic tile, per square foot	.....	.....	.....
Ceramic tile (special pieces), each	.....	.....	.....
(Scratch coat to be included in the above items.)			
Marble—			
Platform wainscot, per square foot	.....	.....	.....
Lintels, Type "A," each	.....	.....	.....
Lintels, Type "B," each	.....	.....	.....
Lintels, toilet, each	.....	.....	.....
Lintels, special, each	.....	.....	.....
Plumbing—			
Rough plumbing, complete, including sewer and water connections, traps, meters, tanks, valves, etc., per station	.....	.....	.....
Back pressure valves, check and gate, each	.....	.....	.....
Toilet fixtures, complete, each	.....	.....	.....
Marble or glass in toilets, including wainscot, partitions, shelves, floor slabs and trim, per square foot	.....	.....	.....
Toilet fittings, complete, including doors, hardware, supports for partitions, etc., per station	.....	.....	.....
Catch basins, including traps, pipes and sewer connections for same, each	.....	.....	.....
Fire service connections, including necessary pipe and valves, each	.....	.....	.....
Wall drains, complete, each	.....	.....	.....
Plastering—			
Flat suspended ceiling, complete, per square yard	.....	.....	.....
Arched suspended ceiling, complete, per square yard	.....	.....	.....
First, second and finish coats on brick or tile, per square yard	.....	.....	.....
Second and finish coats on concrete, per square yard	.....	.....	.....
Portland cement finish on concrete, per square yard	.....	.....	.....
Wire lath and steel furring, exclusive of plaster, per square yard	.....	.....	.....
Woodwork—			
Ticket booths, Type "A," each	.....	.....	.....
Ticket booths, Type "B," each	.....	.....	.....
Ticket booths, Type "C," each	.....	.....	.....
Ticket booths, Type "D," each	.....	.....	.....
Ticket booths, Type "F," each	.....	.....	.....
Ticket booths, special, each	.....	.....	.....
News stands, each	.....	.....	.....
Fixtures for masonry booths, each	.....	.....	.....
Fixtures for news stands, each	.....	.....	.....
(The above items to include all shelves, grilles, hardware, glass, etc., necessary to complete the booths.)			
Doors, Type "A," including hardware, each	.....	.....	.....
Doors, Type "B," including hardware, each	.....	.....	.....
Doors, Type "C," including hardware, each	.....	.....	.....
Doors, Type "D," including hardware, each	.....	.....	.....
Doors, Type "E," including hardware, each	.....	.....	.....
Doors, special, including hardware, each	.....	.....	.....
Trim and doors for panel and switchboards, each	.....	.....	.....
Concrete Stairs—			
Self-supporting stairways, including safety treads, per linear foot tread	.....	.....	.....
Supported stairways, including safety treads, per linear foot tread	.....	.....	.....
Self-supporting landings, including safety treads, per square foot	.....	.....	.....
Supported landings, including safety treads, per square foot	.....	.....	.....
Reinforced concrete columns, per linear foot	.....	.....	.....
Reinforced concrete street landings, per cubic foot	.....	.....	.....
Cement finish on street landings, including safety treads, per square foot	.....	.....	.....
Cement stairway strings, per linear foot	.....	.....	.....
Reinforced concrete curbs, including cement finish, per cubic yard	.....	.....	.....
Cement face on sides of stairways, per linear foot	.....	.....	.....
Floors—			
Concrete floor finish, per square foot	.....	.....	.....
Concrete floor foundation, per cubic yard	.....	.....	.....
Sanitary cove, per linear foot	.....	.....	.....
Cement base, including sanitary cove, per linear foot	.....	.....	.....
Pipe troughs, including covers and frame, per linear foot	.....	.....	.....
Clean cut manholes, including covers and frames, each	.....	.....	.....
Mason Work—			
Face brick, per square foot	.....	.....	.....
Common brick and hollow tile, per cubic foot	.....	.....	.....
Vent flues, per linear foot	.....	.....	.....
Fireproof ceiling, per square foot	.....	.....	.....
Railings—			
Straight level railing, including posts, per linear foot	.....	.....	.....
Curved level railing, including posts, per linear foot	.....	.....	.....
Bevel railing or grille, including posts, per square foot	.....	.....	.....
High sliding gates, complete, each	.....	.....	.....
Low sliding gates, complete, each	.....	.....	.....
Bostwick gates, complete, each	.....	.....	.....
Wood hand rail, including brackets, per linear foot	.....	.....	.....
Street railings at stairwells, each	.....	.....	.....
Street railings, including hoods at stairwells, each	.....	.....	.....
Escalators—			
Escalators, complete, each	.....	.....	.....
Electric Work—			
Light outlet and pull boxes, each	.....	.....	.....
Heater boxes, each	.....	.....	.....
Switchboard boxes, each	.....	.....	.....
Panel board boxes, each	.....	.....	.....
(Above items to include all necessary conduit work.)	-		
Painting—			
Station painting, complete, per station	.....	.....	.....
Total	.....	.....	$.....

SUMMARY.

Total for excavation, etc	$.....
Total for sewers along line and off line	.....
Total for water pipe, gas pipe and other subsurface and surface structures	.....
Total for ducts, street railway track and elevated railway columns	.....
Total for station	.....
Amount of bid	$.....

PIPE GALLERY CONSTRUCTION.

*Estimate or Schedule of Quantities and Unit Prices for Pipe Galleries.**

Classified Items.	Quantity.	Price.	Amount.
Earth excavation, per cubic yard	.....	$.....	$.....
Rock excavation, per cubic yard	.....	.....	.....
Concrete excavation, per cubic yard	.....	.....	.....
Waterproofing—			
With treated fabric, 2-ply, per cubic yard	.....	.....	.....
With treated fabric, 3-ply, per cubic yard	.....	.....	.....
With treated fabric, 4-ply, per cubic yard	.....	.....	.....
Drains—			
12-inch vitrified pipe, per linear foot	.....	.....	.....
10-inch vitrified pipe, per linear foot	.....	.....	.....
8-inch vitrified pipe, per linear foot	.....	.....	.....
6-inch vitrified pipe, per linear foot	.....	.....	.....
4-inch vitrified pipe, per linear foot	.....	.....	.....
Steel—			
Beams, per ton	.....	.....	.....
Rods, per ton	.....	.....	.....
Cast steel, per ton	.....	.....	.....
Cast iron, per ton	.....	.....	.....
Ducts, per linear duct foot	.....	.....	.....
Street surface restored, per square yard	.....	.....	.....
Park surface restored, per square yard	.....	.....	.....
Gratings, per square yard	.....	.....	.....
Trolley rail or track, per square yard	.....	.....	.....

* The bidder shall fill out only the items that will be embraced within his work and which he has taken into consideration as a part of his bid.

PIPE GALLERIES.

Maintenance of Water Pipe, Gas Pipe and Other Subsurface and Surface Structures.
(Includes Furnishing of New Material Wherever Necessary.)

	Water Pipe.			Gas Pipe.		
	Lin. Ft.	Price.	Amount.	Lin. Ft.	Price.	Amount.
3-inch water or gas	.....	$.....	$.....	.....	$.....	$.....
4-inch water or gas	.....	.....	.....	.....	.....	.....
6-inch water or gas	.....	.....	.....	.....	.....	.....
8-inch water or gas	.....	.....	.....	.....	.....	.....
10-inch water or gas	.....	.....	.....	.....	.....	.....
12-inch high-pressure water	.....	.....	.....	.....	.....	.....
16-inch water or gas	.....	.....	.....	.....	.....	.....
16-inch high-pressure water	.....	.....	.....	.....	.....	.....
18-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch water or gas	.....	.....	.....	.....	.....	.....
20-inch high-pressure water	.....	.....	.....	.....	.....	.....
24-inch water or gas	.....	.....	.....	.....	.....	.....
30-inch water or gas	.....	.....	.....	.....	.....	.....
36-inch water or gas	.....	.....	.....	.....	.....	.....
48-inch water	.....	.....	.....	.....	.....	.....
Total		$.....				$.....

SUMMARY.

Total for excavation, etc	$.....
Total for water pipe, gas pipe and other surface and subsurface structures	.....
Amount of bid	$.....

4. If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, *a bond in the penalty of one hundred and fifty thousand dollars* ($150,000) *in the form hereto annexed, with the following named sureties, viz.:**

* The bidder may, under section 34-c of the Rapid Transit Act, deposit cash or securities, with the approval of the Commission, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

5. The Commission may cause any notice intended for the undersigned to be delivered at Room No. , on the floor of the building No. , in the Borough of , in The City of New York. Such delivery shall be sufficient notice to the undersigned.

6. At the time of delivering this proposal to the Commission, the undersigned will separately deliver a certified check, payable to the order of the Comptroller of The City of New York, for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is approved by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to make the deposit in cash or securities, as aforesaid; or to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to Contractors and this Contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and make the said deposit in cash or securities or procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

7. A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

8. There are no persons interested with the undersigned in this proposal, except*

* Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

9. This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the , 1908.

Affidavit of Verification.

State of New York, City and County of New York, ss

being duly sworn, says:

I am* the proposing Contractor

* If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of "; if a corporation, say "the (President or other officer duly authorized) of the Company."

above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this day of , 1908.

Schedule of Securities.

Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.

All securities when delivered must be payable to or run in favor of or be transferred to the Comptroller of The City of New York.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act (chapter 4 of the Laws of 1891 as amended), the provisions of section 45 of the Greater New York Charter and the requisition of the Public Service Commission for the First District duly made by said Commission on May 26, 1908, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between E. E. Smith Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Brooklyn of a four-track underground railroad or subway, the centre line of which will begin at a point on the centre line of Fourth avenue 15 feet south of the south line of Twenty-seventh street and running thence southerly under and along the centre line of Fourth avenue to a point about 70 feet south of the south line of Fortieth street; thence continuing southerly under the west side of Fourth avenue as a two-track railroad to a point about 150 feet south of the south line of Forty-second street. South of the station near Thirty-seventh street the four tracks will branch, making provision for connection with the Bensonhurst, Bath Beach and Coney Island route. The centre line of these four tracks will begin at a point on the centre line of Fourth avenue near the south line of Thirty-seventh street and run thence southerly under and along the centre line of Fourth avenue to a point about 75 feet north of the north line of Thirty-ninth street and will curve thence easterly under Fourth avenue to a point about 55 feet south of the south line of Thirty-ninth street and about 15 feet west of the east line of Fourth avenue..... $2,808,982 80

For the construction of pipe galleries in connection with the said railroad for the sum of..... 173,665 00

Total..... $2,982,647 80

—and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of Corporate Stock available for the said purposes shall be two million eight hundred and eight thousand nine hundred and eighty-two dollars and eighty cents ($2,808,982.80) for railroad construction, and one hundred and seventy-three thousand six hundred and sixty-five dollars ($173,665) for pipe gallery construction; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue Corporate Stock of The City of New York to the amount of five hundred thousand dollars ($500,000) for railroad construction, and thirty thousand dollars ($30,000) for pipe gallery construction, at such rate of interest as the Board of Commissioners of the Sinking Fund shall prescribe for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board under date of May 26, 1908.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The following matters not upon the Calendar for this day were considered by unanimous consent:

The Comptroller presented the following resolution, requesting the Public Service Commission to apply to the Board of Estimate and Apportionment for an authorization of the issue of Corporate Stock for the balance of the total amount of bonds required to complete the contracts for the Fourth avenue subway:

Resolved, That the Public Service Commission for the First District be and hereby is requested to apply to the Board of Estimate and Apportionment for the authorization of an issue of Corporate Stock in a sum sufficient to provide for the balance of the total amount of bonds required to complete the contracts for the six sections of the Fourth avenue subway in the Borough of Brooklyn this day assented to by the Board of Estimate and Apportionment.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution, requesting that the Public Service Commission apply forthwith for the appointment of Commissioners in condemnation to secure easements in property along the route of the Fourth avenue subway; title to property to be taken upon the filing of the oaths of the Commissioners, and further requesting the Public Service Commission to notify the Board of Estimate and Apportionment when they have complied with this request:

Resolved, That the Public Service Commission for the First District be and hereby is requested to make application forthwith for the appointment of Commissioners of Appraisal to condemn easements along the line of the Fourth avenue subway, title thereto to vest in the City upon the filing of the oaths of the Commissioners; and be it further

Resolved, That said Public Service Commission be and hereby is requested to notify this Board as soon as such application has been made.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The President of the Borough of Manhattan presented the following resolution, requesting that the Public Service Commission inform this Board what steps, if any, have been taken in regard to the Lexington avenue rapid transit route, which was approved by this Board on June 4, 1909:

Resolved, That the Public Service Commission for the First District be and is hereby requested to inform the Board of Estimate and Apportionment what action, if any, has been taken by the said Commission in regard to the Lexington avenue rapid transit route, approved by this Board July 14, 1905, and modified March 13, 1908, May 8, 1908, and June 4, 1909.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution, requesting that the Public Service Commission inform the Board of Estimate and Apportionment what steps, if any, have been taken in regard to the Broadway-Lafayette route:

Resolved, That the Public Service Commission for the First District be and hereby is again requested to advise the Board of Estimate and Apportionment what action, if any, has been taken by said Commission with reference to the Broadway-Lafayette rapid transit route, which was approved by the Board of Estimate July 14, 1905, and for which route this Board, by resolution adopted January 27, 1907, approved the plan for construction only, and at a meeting held April 24, 1908, referred to the Public Service Commission a communication from the Comptroller relative thereto.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The President of the Borough of Richmond presented the following resolution, requesting that the Public Service Commission inform this Board what steps, if any, have been taken to extend the Fourth avenue subway beyond Forty-third street, with a view of its connection with Staten Island:

Resolved, That the Public Service Commission for the First District be and hereby is requested to advise the Board of Estimate and Apportionment what action, if any, has been taken by said Commission to extend the Fourth avenue subway beyond Forty-third street, with a view to its connection with Staten Island.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution requesting that the Public Service Commission advise the Board of Estimate and Apportionment what action, if any, has been taken to extend Fourth avenue subway beyond Forty-third street, with a view to its connection with Coney Island:

Resolved, That the Public Service Commission for the First District be and hereby is requested to advise the Board of Estimate and Apportionment what action, if any, has been taken by said Commission to extend the Fourth avenue subway beyond Forty-third street, with a view of its connection with Coney Island.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution of the Board of Education requesting an issue of $7,415,010 Corporate Stock for the erection of new buildings, improving premises, etc., and an immediate issue of $2,500,000, pursuant to clause 9 of section 169 of the Charter, together with report recommending the authorization of an issue of Corporate Stock, during the remainder of the year 1909, to the amount of $6,799,010 to provide means for the construction of school buildings and improvement of school premises.

(On May 7, 1909, the resolution of the Board of Education as above was referred to the Comptroller.)

(On May 28, 1909, the above report was laid over.)

(On September 17, 1909, the Board authorized an issue of $100,000 Corporate Stock for salaries and wages in all boroughs on account of said request, which amount is deducted from the original recommendation of the Comptroller.)

To the Board of Education:

The Committee on Buildings begs to present for your consideration the following report as to the necessities of this Department in the matter of funds required for the erection of new buildings and additions at the present time.

Owing to the financial conditions which have prevailed for the past year, it has not been possible to let contracts for this new work, but it is our belief that, considering the urgency of the need for additional accommodations, this cannot longer be delayed.

Your committee therefore submits the following detailed statement showing the proposed work:

SCHEDULE A.

ESTIMATED AMOUNT OF CONTRACT TO BE LET FOR EACH OF THE NEW BUILDINGS OR ADDITIONS, PLANS FOR WHICH ARE, IN MANY INSTANCES, IN AN ADVANCED STAGE OF COMPLETION.

District.	School.	Location.	Class-rooms.	Estimated Cost.
		Borough of Manhattan.		
9	..	Clarkson and West Houston streets, between Varick and Hudson streets	64	$416,000 00
20	78	Addition—Pleasant avenue and One Hundred and Nineteenth street	32	182,000 00
7	61	East Twelfth street, between Avenues B and C	48	316,000 00
20	102	East One Hundred and Thirteenth street, near Second avenue	32	200,000 00
22	132	Addition—Wadsworth avenue and One Hundred and Eighty-second street	18	120,000 00
1	130	Baxter and Hester streets	48	316,000 00
5	13	Addition—East Houston and Essex streets	24	156,000 00
22	169	Addition—Audubon avenue and One Hundred and Sixty-ninth street	16	125,000 00
17	72	Addition—One Hundred and Fifth street and Lexington avenue	4	35,000 00
				$1,866,000 00
		Borough of The Bronx.		
26	46	Bainbridge and Briggs avenues and One Hundred and Ninety-sixth street	48	$312,000 00
25	44	Prospect avenue and One Hundred and Seventy-sixth street.	48	283,000 00
24	39	Addition—Longwood avenue, Kelly and Beck streets	24	157,000 00
26	47	Randolph, St. Lawrence and Hammond avenues	48	312,000 00
26	45	One Hundred and Eighty-ninth and Hoffman streets and Lorillard place	48	312,000 00
26	34	Addition—Amethyst avenue and Victor street, Van Nest	16	100,000 00
				$1,476,000 00
		Borough of Brooklyn.		
31	19	Addition—South Third and Keap streets	36	$216,000 00
39	167	Schenectady avenue, Eastern parkway and Lincoln place	48	300,000 00
32	*168	Throop avenue, Bartlett and Whipple streets	48	300,000 00
39	165	Lott and Hopkinson avenues and Amboy street	32	200,000 00
36	73	Addition—McDougal street and Rockaway avenue	26	169,000 00
38	99	East Ninth and Tenth streets, between Avenues K and L	36	216,000 00
37	169	Seventh avenue, Forty-third and Forty-fourth streets	32	200,000 00
32	79	Addition—Kosciusko street, near Sumner avenue	32	200,000 00
37	170	Sixth and Stewart avenues, Seventy-first and Seventy-second streets	48	316,000 00
40	†171	Ridgewood, Lincoln and Nichols avenues	48	316,000 00
38	100	West Third street, Coney Island	32	200,000 00
				$2,633,000 00
		Borough of Queens.		
42	192	Park and Grinnell avenues and Randolph street, North Corona	48	$130,000 00
43	40	Pacific and Union Hall streets, Jamaica	32	200,000 00
44	91	Myrtle, Washington and Ridgewood avenues, Glendale	48	312,000 00
43	24	Addition—Queens and Robertson avenues, Flushing	4	28,000 00
				$670,000 00
		Borough of Richmond.		
46	35	Gordon and Targee streets, Stapleton	16	$112,000 00
		Total		$6,757,000 00

* Title to this site, except a lot 25 feet by 100 feet, has vested in the City, and Commissioners have been appointed in condemnation proceedings to acquire said lot. Public School 168 will relieve schools having about 4,100 pupils on part time.

† This site is in process of acquisition, and the building is urgently needed to relieve the pupils on part time in this district, who number over 5,000. Funds should therefore be provided, so that a contract for the new building may be let at the earliest possible moment.

‡ Funds were authorized in 1903 (see Journal, pages 706 and 899) sufficient for a 24-room building, which will be only half the required size. Application is made here, therefore, for the additional amount estimated as necessary.

SCHEDULE B.

HIGH AND SPECIAL SCHOOLS.

BOROUGH OF BROOKLYN.

Manual Training High School, Seventh Avenue, Fourth and Fifth Streets—Additional story on rear to provide needed joinery, wood-working and other mechanical shops	$10,000 00

BOROUGH OF QUEENS.

New York Parental School, Flushing—Three additional dormitory buildings, stable, etc	250,000 00
Total	$260,000 00

SCHEDULE C.

ESTIMATED AMOUNT OF FUNDS REQUIRED FOR THE ERECTION OF PORTABLE BUILDINGS AND ALTERATIONS TO EXISTING SCHOOL BUILDINGS TO FURNISH ADDITIONAL ACCOMMODATIONS.

BOROUGH OF MANHATTAN.

Public School 41, No. 36 Greenwich Avenue—Alterations		$4,000 00

BOROUGH OF THE BRONX.

Public School 8, Mosholu Parkway—Three portable buildings	$4,500 00	
Public School 14, Throggs Neck—Two portable buildings	3,000 00	
Public School 15, Westchester Avenue—Three portable buildings	4,500 00	
		$12,000 00

BOROUGH OF BROOKLYN.

Public School 125, Blake, Rockaway and Thatford Avenues—Changing the assembly room into classrooms		4,500 00
Total		$20,500 00

SCHEDULE D.

ESTIMATED AMOUNT OF FUNDS REQUIRED FOR IMPROVING LOTS, ETC.

BOROUGH OF THE BRONX.

Public School 20, Fox and Barretto Streets—Sanitary work, grading, etc.		$14,000 00

BOROUGH OF BROOKLYN.

Public School 107, Eighth Avenue and Thirteenth Street—Grading, etc.	$200 00	
Public School 36, Stagg Street and Bushwick Avenue—Grading, etc.	175 00	
Public School 123, Irving Avenue and Suydam Street—Grading, etc.	40 00	
Public School 72, New Lots Road—Sanitary work, fencing, etc.	20,000 00	
		20,415 00

BOROUGH OF RICHMOND.

Public School 18, Broadway, West New Brighton—Grading, etc		5,000 00
Total		$39,415 00

SCHEDULE E.

CONTINGENCIES.

For the wages of the Draftsmen, Inspectors, etc., and for surveys, borings and the purchase of drafting materials, based on 5 per cent. of the proposed expenditures	$338,095 00

SUMMARY.

Schedule A—New buildings and additions	$6,757,000 00
Schedule B—High and special schools	260,000 00
Schedule C—Portable buildings, etc	20,500 00
Schedule D—Improving lots, etc	39,415 00
Schedule E—Contingencies	338,095 00
Total	$7,415,010 00

The schedules for new buildings and additions (A) is in accordance with the recommendation of the City Superintendent, which he furnished to your Committee, together with a statement as to the part-time situation as it at present exists. These latter conditions, owing to the inability to let contracts during the past year, must of necessity increase and render it all the more necessary that the recommendations herein made be approved, authorization of the funds required obtained, and the buildings erected with the greatest despatch.

The following resolutions are submitted for adoption:

Resolved, That the Board of Estimate and Apportionment be and it is hereby requested to authorize the issue of Corporate Stock during the remainder of the year 1909, to the amount of $7,415,010 for the erection of new buildings, improving premises, etc.; and be it further

Resolved, That the said Board be and it is hereby requested to authorize the immediate issue of Corporate Stock to the amount of $2,500,000 in accordance with the provisions of clause 9 of section 169 of the Charter.

A true copy of report and resolution adopted by the Board of Education April 28, 1909.

A. EMERSON PALMER, Secretary, Board of Education.

DEPARTMENT OF FINANCE,
NEW YORK, May 24, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Board of Education requesting the issue of Corporate Stock, during the remainder of the year 1909, to the amount of $7,415,010, for the erection of new buildings, the improvement of school premises, etc., $2,500,000 of said amount to be issued in accordance with the provisions of clause 9 of section 169 of the Charter, which communication was referred to the Comptroller at a meeting of the Board of Estimate and Apportionment held May 7, 1909, I beg to report as follows:

The following statement shows in detail the estimated cost of the proposed work:

SCHEDULE A.

ESTIMATED AMOUNT OF CONTRACT TO BE LET FOR EACH OF THE NEW BUILDINGS OR ADDITIONS, PLANS FOR WHICH ARE, IN MANY INSTANCES, IN AN ADVANCED STAGE OF COMPLETION.

District.	School.	Location.	Classrooms.	Estimated Cost.
		Borough of Manhattan.		
..	..	Clarkson and West Houston streets, between Varick and Hudson streets	64	$416,000 00
20	78	Addition—Pleasant avenue and One Hundred and Nineteenth street	32	182,000 00
7	61	East Twelfth street, between Avenues B and C	48	316,000 00
20	102	East One Hundred and Thirteenth street, near Second avenue	32	200,000 00
22	132	Addition—Wadsworth avenue and One Hundred and Eighty-second street	18	120,000 00
1	130	Baxter and Hester streets	48	316,000 00
5	13	Addition—East Houston and Essex streets	24	156,000 00
22	169	Addition—Audubon avenue and One Hundred and Sixty-ninth street	16	125,000 00
17	72	Addition—One Hundred and Fifth street and Lexington avenue	4	35,000 00
				$1,866,000 00

District.	School.	Location.	Classrooms.	Estimated Cost.
		Borough of The Bronx.		
26	46	Bainbridge and Briggs avenues and One Hundred and Ninety-sixth street	48	$312,000 00
25	41	Prospect avenue and One Hundred and Seventy-sixth street	48	283,000 00
24	39	Addition—Longwood avenue, Kelly and Beck streets	24	157,000 00
26	47	Randolph, St. Lawrence and Hammond avenues	48	312,000 00
26	45	One Hundred and Eighty-ninth and Hoffman streets and Lorillard place	48	312,000 00
26	34	Addition—Amethyst avenue and Victor street, Van Nest	16	100,000 00
				$1,476,000 00
		Borough of Brooklyn.		
31	19	Addition—South Third and Keap streets	36	$216,000 00
39	167	Schenectady avenue, Eastern parkway and Lincoln place	48	300,000 00
32	168	Throop avenue, Bartlett and Whipple streets	48	300,000 00
39	165	Lott and Hopkinson avenues and Amboy street	32	200,000 00
36	73	Addition—McDougal street and Rockaway avenue	26	169,000 00
38	99	East Ninth and Tenth streets, between Avenue K and L	36	216,000 00
37	169	Seventh avenue, Forty-third and Forty-fourth streets	32	200,000 00
32	79	Addition—Kosciusko street, near Sumner avenue	32	200,000 00
37	170	Sixth and Stewart avenues, Seventy-first and Seventy-second streets	48	316,000 00
40	171	Ridgewood, Lincoln and Nichols avenues	48	316,000 00
38	100	West Third street, Coney Island	32	200,000 00
				$2,633,000 00
		Borough of Queens.		
42	92	Park and Grinnell avenues and Randolph street, North Corona	48	$130,000 00
43	40	Pacific and Union Hall streets, Jamaica	32	200,000 00
44	91	Myrtle, Washington and Ridgewood avenues, Glendale	48	312,000 00
43	24	Addition—Queens and Robertson avenues, Flushing	4	28,000 00
				$670,000 00
		Borough of Richmond.		
46	35	Gordon and Targee streets, Stapleton	16	$112,000 00
		Total		$6,757,000 00

SCHEDULE B.

HIGH AND SPECIAL SCHOOLS.

BOROUGH OF BROOKLYN.

Manual Training High School (Seventh avenue, Fourth and Fifth Streets)—Additional story on rear to provide needed joinery woodworking and other mechanical shops $10,000 00

BOROUGH OF QUEENS.

New York Parental School, Flushing—Three additional dormitory buildings, stable, etc 250,000 00

Total $260,000 00

SCHEDULE C.

ESTIMATED AMOUNT OF FUNDS REQUIRED FOR THE ERECTION OF PORTABLE BUILDINGS AND ALTERATIONS TO EXISTING SCHOOL BUILDINGS, TO FURNISH ADDITIONAL ACCOMMODATIONS.

BOROUGH OF MANHATTAN.

Public School 41 (No. 36 Greenwich avenue)—Alterations $4,000 00

BOROUGH OF THE BRONX.

Public School 8 (Mosholu parkway)—Three portable buildings	$4,500 00	
Public School 14 (Throggs Neck)—Two portable buildings	3,000 00	
Public School 15 (Westchester avenue)—Three portable buildings	4,500 00	
		12,000 00

BOROUGH OF BROOKLYN.

Public School 125 (Blake, Rockaway and Thatford avenues)—Changing the assembly room into classrooms 4,500 00

Total $20,500 00

SCHEDULE D.

ESTIMATED AMOUNT OF FUNDS REQUIRED FOR IMPROVING LOTS, ETC.

BOROUGH OF THE BRONX.

Public School 20 (Fox and Barretto streets)—Sanitary work, grading, etc. $14,000 00

BOROUGH OF BROOKLYN.

Public School 107 (Eighth avenue and Thirteenth street)—Grading, etc	$200 00	
Public School 36 (Stagg street and Bushwick avenue)—Grading, etc	175 00	
Public School 123 (Irving avenue and Suydam street)—Grading, etc	40 00	
Public School 72 (New Lots road)—Sanitary work, fencing, etc	20,000 00	
		20,415 00

BOROUGH OF RICHMOND.

Public School 18 (Broadway, West New Brighton)—Grading, etc 5,000 00

Total $39,415 00

SCHEDULE E.

CONTINGENCIES.

For wages of Draughtsmen, Inspectors, etc., and for surveys, borings and the purchase of draughting materials, based on 5 per cent. of the proposed expenditures $338,095 00

SUMMARY.

Schedule A—New buildings and additions	$6,757,000 00
Schedule B—High and special schools	260,000 00
Schedule C—Portable buildings, etc	20,500 00
Schedule D—Improving lots, etc	39,415 00
Schedule E—Contingencies	338,095 00
Total	$7,415,010 00

Owing to the financial conditions which have prevailed for two years past, the amount of corporate stock authorized for school building purposes was only $3,500,000 during the year 1907, and $8,564,437.15 during the year 1908, as against $13,000,000 during 1906 and $14,500,000 during 1905.

The total amount of Corporate Stock authorized since January 1, 1906, to provide means for the acquisition of school sites and the construction, improvement and equipment of school buildings and premises, aggregates $26,261,778.99, which sum is distributed as follows:

Corporate Stock Authorized for School Buildings and Sites, All Boroughs, Since January 1, 1906.

1906	May 18 (section 169 of Charter), buildings and sites	$3,500,000 00
	May 18 (section 47 of Charter), buildings and sites	4,500,000 00
	December 7, buildings and sites	5,000,000 00
1907	June 7, buildings	3,500,000 00
1908	March 13, as amended February 5, 1909, interior construction and equipment	1,957,362 15
	March 26, construction, Washington Irving High School	600,000 00
	April 3, fire protection	1,000,000 00
	April 24, buildings	4,607,075 00
	June 6, addition, Boys' High School, Brooklyn	400,000 00
1909	February 5, interior construction and equipment	197,341 84
	March 26, sites and equipment	1,000,000 00
	Total	$26,261,778 99

Previous to March 13, 1908, Corporate Stock authorizations for school building purposes were in bulk, and for the City at large. It is, therefore, not practicable to separate authorizations for elementary schools from authorizations for high schools and other purposes in the above total, neither is it feasible to make a segregation of the same by Boroughs.

According to the books of the Department of Finance, the cash disbursements for school building purposes for the past three years aggregate $34,711,560.21, and are distributed as under:

Cash Disbursements for School Building Purposes for 1906, 1907 and 1908, Segregated by Boroughs.

Borough.	1906.	1907.	1908.	Total for 1906, 1907 and 1908.
Manhattan	$5,968,349 16	$4,481,803 99	$3,315,705 78	.....
The Bronx	842,085 69	785,560 33	377,497 90	.....
Brooklyn	3,549,017 56	4,757,737 56	5,077,121 99	.....
Queens	1,274,203 28	1,755,695 90	1,297,107 43	.....
Richmond	440,016 07	501,877 66	287,779 91	.....
Total	$12,073,671 76	$12,282,675 44	$10,355,213 01	$34,711,560 21

In addition to the above mentioned cash disbursements, the books of this Department show Department of Education contract liabilities, as of December 31, 1908, aggregating $4,906,457.58 as per the following statement:

Department of Education, Contract Liabilities on Bond Accounts as of December 31, 1908.

School Building Fund, Interior Construction and Equipment—		
Borough of Manhattan	$107,400 13	
Borough of Brooklyn	348,383 35	
Borough of The Bronx	39,066 50	
Borough of Queens	65,229 85	
Borough of Richmond	6,103 00	
		$566,182 83
School Building Funds, Construction and Improvement—		
Borough of Manhattan	$296,970 00	
Borough of Brooklyn	1,185,165 25	
Borough of The Bronx	103,823 00	
Borough of Queens	127,652 00	
Borough of Richmond	.....	
		1,713,610 25
School Building, Providing Fire Protection—		
Borough of Manhattan	$157,731 18	
Borough of Brooklyn	175,924 05	
Borough of The Bronx	817 20	
Borough of Queens	17,624 00	
Borough of Richmond	15,537 00	
		367,633 43
School Building Fund, all Boroughs		2,196,419 64
Sanitary Improvement, School House Funds		4,117 85
School House Fund, Boroughs of Manhattan and The Bronx		4,000 00
School Building Fund—		
Boroughs of Manhattan and The Bronx	.....	
Borough of Brooklyn	$45 00	
Borough of Queens	16,912 50	
Borough of Richmond	1,360 00	
		18,317 50
Education, Department of—		
Office Building, Equipment, Borough of Brooklyn		6,543 00
Parental School, Interior Construction and Equipment, Borough of Queens		29,633 08
		$4,906,457 58

As in Corporate Stock authorizations, it is not practicable in all funds to segregate the above contract liabilities by Boroughs, nor has it been feasible in dealing with disbursements and liabilities in general to segregate items for High Schools.

In the light of the urgent demand for new school buildings for Brooklyn, it is of interest to note that during the year 1906 the cash disbursements for new school buildings and sites for the said Borough aggregated $3,549,017.56, as against $12,073,671.76 for the entire City, which sum for Brooklyn represents 29.39 per cent. of the total amount expended for all Boroughs. The Borough of Brooklyn represents approximately 34 per cent. of the population of the entire City, and approximately 36 per cent. of the net enrollment in the public schools.

During the year 1907 the cash disbursements for school building purposes in the Borough of Brooklyn aggregated $4,757,737.56, as against $12,282,675.44 for the entire City. Said sum for Brooklyn represents 38.73 per cent. of said total for all Boroughs. Although the sums expended for 1906 and for 1907, respectively, for all Boroughs were approximately the same, the proportionate amount spent for the Borough of Brooklyn increased from 29.39 per cent. for 1906 to 38.73 per cent. for 1907.

During the year 1908 the cash disbursements for Brooklyn aggregated $5,077,121.99, as against $10,355,213.01 for the entire City. During said year disbursements for Brooklyn increased to 49.03 per cent. of the total amount expended for the entire City, and from $4,757,736.56 for 1907 to $5,077,121.99 for 1908, notwithstanding the fact that the total expenditures for 1908 were less than for either of the two years preceding. The figures for cash disbursements for 1909, to April 7, show that 50.70 per cent. of all Board of Education Corporate Stock payments made so far during the current year are chargeable to the Borough of Brooklyn. These figures establish the fact that the building operations of the Department of Education are now concentrating on that Borough.

The following statement, giving a list of all school buildings now under construction, tells the same story with regard to Brooklyn:

School Buildings and Additions Thereto, Designed to Furnish Additional School Accommodations, Now in Course of Construction.

District.	Public School.	Location.	Classrooms.	Sittings.
		Borough of Manhattan.		
1	114	James, Oliver and Oak streets	59	2,900
4	12	Madison and Jackson streets (2d section)	25	1,250
11	17	Forty-seventh street, between Eighth and Ninth avenues (2d section)	26	1,250

District.	Public School.	Location.	Class-rooms.	Sit-tings.
12	27	Forty-second street, between Second and Third avenues (2d section)	21	1,000
17	101	One Hundred and Eleventh street, west of Lexington avenue	42	2,100
21	100	One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets, between Fifth and Lenox avenues	75	3,700
22	Add. 132	One Hundred and Eighty-second street and Wadsworth avenue	16	800
			264	13,000
		Borough of The Bronx.		
23	Add. 30	One Hundred and Forty-first street, near Brook avenue	15	700
26	Add. 16	Matilda street, Wakefield	24	1,150
			39	1,850
		Borough of Brooklyn.		
29	157	Kent avenue and Taaffe place	60	2,950
29	93	New York avenue and Herkimer street	31	1,500
34	Add. 126	Meserole avenue, Lorimer and Guernsey streets	14	700
35	162	St. Nicholas avenue, Willoughby avenue and Suydam street	49	2,350
35	Add. 75	Evergreen avenue and Grove street	34	1,700
37	160	Fort Hamilton avenue and Fifty-first street	31	1,500
37	163	Benson and Seventeenth avenues	31	1,500
37	164	Fourteenth avenue and Forty-second street	47	2,300
37	Add. 131	Fort Hamilton avenue and Forty-third street (temporary building)	8	400
38	Add. 128	Twenty-first avenue and Eighty-third street	15	700
39	156	Sutter avenue, Barrett and Grafton streets	70	3,400
39	84	Glenmore avenue and Watkins street	32	1,600
40	64	Belmont and Atkins avenues and Berriman street	46	2,250
40	158	Belmont avenue, Alford and Warwick streets	45	2,200
..	135	Church avenue (temporary buildings)	8	400
			521	25,450
		Borough of Queens.		
42	Add. 87	Washington avenue, Middle Village	23	1,150
44	56	Elm street, Richmond Hill	24	1,200
44	90	Washington avenue, Richmond Hill	45	2,200
			92	4,550

There are twenty-seven new buildings and additions to old ones now under construction, having 916 classrooms, designed to provide 44,850 additional sittings. Fifteen of said buildings and additions, having 521 classrooms with 25,450 sittings, are for the Borough of Brooklyn. It thus appears that approximately 57 per cent. of all additional school accommodations now under way are intended to relieve the present congestion in the Brooklyn elementary schools.

With the exception of $10,000, requested for the purpose of building an additional story on the rear of the Manual Training High School in Brooklyn (item 1, Schedule B), all of the fund requested for new buildings during the remainder of the current year is for the purpose of providing additional facilities for elementary education.

According to the figures furnished by the President of the Board of Education under date of March 30, 1909, in response to a request from the Bureau of Municipal Investigation and Statistics, 112,623 additional sittings were provided for the elementary schools during the three years ending last October, as under:

Additional Sittings Provided for Elementary Schools.

Year ending October, 1906	26,726
Year ending October, 1907	53,358
Year ending October, 1908	32,539
Total	112,623

Said request called for the number of sittings on January 1, 1906, January 1, 1907, January 1, 1908, and January 1, 1909, but the President of the Board of Education stated in his reply, under date of March 6, that it was not practicable to furnish statistics as of said dates because for a number of years it has been the practice of the Bureau of Buildings to take a physical census of the school buildings of the City about October 15 in each year, and that they have no data which will enable them to make up the details as of the dates suggested. In response to a further request for the information desired, in such form as might best lend itself to the data at hand, the statistics for sittings as herein used, with the exception that deductions were made therein for truant schools in order to get a common basis for comparisons with register, were transmitted with the following communication:

BOARD OF EDUCATION,
PARK AVENUE AND FIFTY-NINTH STREET,
NEW YORK, March 30, 1909.

Hon. HERMAN A. METZ, *Comptroller:*

DEAR SIR—Upon the receipt of your letter of the 19th inst., addressed to President Winthrop, asking for information concerning the seating capacity of public school buildings, the same was referred by the President to Mr. C. B. J. Snyder, Superintendent of School Buildings, who, under date of March 26, has furnished the enclosed schedule, prepared in accordance with your request. In reference thereto, Mr. Snyder states as follows:

"First—That these figures are based on the annual census which was taken of the school sittings in October of the respective years.

"Second—That it is impossible to supplement those figures by the additional sittings provided between that date and the end of each year, as no such record is kept.

"Third—No separate count is taken of the sittings in the theory department of the training schools, save in the Borough of Queens since 1906 and in the Borough of Brooklyn in the year 1908, as the training schools, both the theory and practice departments, occupy the same building."

Trusting that the information furnished by Mr. Snyder will be satisfactory, I remain,

Respectfully yours,
A. EMERSON PALMER, Secretary.

It should be noted that the figures for sittings in the elementary schools as furnished by the Superintendent of School Buildings for the purposes of this report do not agree entirely with statistics for sittings in said schools as given by the Superintendent of Schools in his annual reports and as furnished by him to the Bureau of Municipal Investigation and Statistics under date of May 12, 1909. The difference is due in part to the fact that, at the request of the Finance Department, kindergarten chairs are included in the figures furnished by the Superintendent of Buildings. In order that a common and accurate basis of statistical accounting as regards school sittings may be available at all times hereafter, the Superintendent of Schools has decided to embody figures for sittings in his regular statistical statement regarding register, average attendance, etc., which is submitted monthly to the Board of Education.

In order to determine more accurately the present situation with regard to accommodations in elementary schools an analysis has been made of sittings as compared with registration of pupils, by Boroughs, for the past three years. It should be noted that the figures herein given for registration represent the schools just after the influx which occurs annually in September, and consequently at the season of the year in which the number of pupils on register and in part-time classes is usually at its maximum.

The number of pupils *on register* has been used for the purposes of this analysis rather than the *average attendance,* because every child is entitled to retain his seat even though he may be absent for a day or so from time to time. Also, the number of sittings has been limited to those provided in regular classrooms, because it would appear that sittings in rented annexes and sittings in rooms occupied temporarily, but not intended for classroom purposes, should not be included in calculations instituted to disclose actual needs in relation to appropriations for new buildings. The Bureau of Buildings was, therefore, requested to furnish data for sittings segregating these two items, and the conclusions herein reached are based upon the number of sittings in regular classrooms.

The following statement (Exhibit A) shows the results of a comparison between the number of pupils on register in the elementary schools of the several Boroughs, including kindergartens, for the months of October, 1905, 1906, 1907, 1908 and the number of sittings in regular classrooms, including kindergartens, on the same dates, the increase in the number of pupils and in the number of sittings in each case being reduced to percentages for the purpose of comparison. It also shows the number of pupils on part time in each Borough on the dates mentioned, together with the per cent. of the entire number on register represented by said part-time pupils. The excess or deficiency of regular sittings, as compared with register, is also set forth, and finally, in the last column, the number of additional sittings provided in rented or temporary rooms is given for the purpose of reflecting the total seating capacity of the elementary schools in the several Boroughs on the dates mentioned.

EXHIBIT "A."

ELEMENTARY SCHOOLS, INCLUDING KINDERGARTENS.

A Comparative Statement Showing Number of Pupils on Register, Number of Pupils on Part Time, and Number of Sittings, by Boroughs, as of October, 1905, 1906, 1907 *and* 1908.

Boroughs.	Number of Pupils on Register.	Increase in Register Over October of Preceding Year.	Per Cent. of Increase in Register Over October of Preceding Year.	Number of Pupils on Part Time.	Per Cent. of Register on Part Time.	Number of Sittings Exclusive of Temporary or Rented Rooms.	Increase in Number of Sittings Over October of Preceding Year.	Per Cent. of Increase in Sittings Over October of Preceding Year.	Excess of Sittings Over Register.	Deficiency of Sittings as Compared with Register.	Additional Number of Sittings in Temporary or Rented Rooms.
					October, 1905.						
Manhattan	261,464	.....	....	35,584	13.61	266,670	.....	....	5,206	.....	26,022
The Bronx	47,701	.....	....	796	1.66	54,221	.....	....	6,520	.....	2,751
Brooklyn	194,405	.....	....	40,853	21.01	185,411	.....	....	.....	8,994	2,422
Queens	36,240	.....	....	4,908	13.54	37,637	.....	....	1,397	.....	3,578
Richmond	11,789	.....	....	386	3.27	13,327	.....	....	1,538	.....	1,381
Totals	551,599	.....	....	82,527	14.96	557,266	.....	....	14,661	8,994	36,154
					October, 1906.						
Manhattan	261,621	157	.06	21,612	8.26	272,393	5,723	2.14	10,772	.....	16,299
The Bronx	52,885	5,184	10.86	1,585	2.99	56,200	1,979	3.64	3,315	.....	1,839
Brooklyn	206,629	12,224	6.28	48,741	23.58	195,622	10,211	5.50	.....	11,007	2,083
Queens	40,762	4,522	12.47	9,515	23.34	44,725	7,088	18.83	3,963	.....	1,142
Richmond	12,105	316	2.68	80	.66	15,052	1,725	12.94	2,947	.....	518
Totals	574,002	22,403	4.06	81,533	14.20	583,992	26,726	4.79	20,997	11,007	21,881
					October, 1907.						
Manhattan	265,173	3,552	1.35	15,147	5.71	292,009	19,616	7.20	26,836	.....	11,974
The Bronx	57,266	4,381	8.28	2,854	4.98	64,866	8,666	15.42	7,600	.....	1,214
Brooklyn	216,762	10,133	4.90	43,972	20.28	215,226	19,604	10.02	.....	1,536	2,711
Queens	43,039	2,277	5.58	8,925	20.73	48,726	4,001	8.94	5,687	.....	3,363
Richmond	12,791	686	5.66	96	.75	16,523	1,471	9.77	3,732	.....	412
Totals	595,031	21,029	3.66	70,994	11.93	637,350	53,358	9.13	43,855	1,536	19,674
					October, 1908.						
Manhattan	266,034	861	.32	14,090	5.29	295,437	3,428	1.17	29,403	.....	10,966
The Bronx	60,932	3,666	6.40	5,849	9.59	67,158	2,292	3.53	6,226	.....	1,690
Brooklyn	226,386	9,624	4.43	41,800	18.46	233,437	18,211	8.46	7,051	.....	3,539
Queens	45,643	2,604	6.05	3,870	8.47	55,300	6,574	13.49	9,657	.....	2,664
Richmond	12,913	122	.95	190	1.47	18,557	2,034	12.31	5,644	.....	357
Totals	611,908	16,877	2.83	65,799	10.75	669,889	32,539	5.10	57,981	.....	19,216

The following table summarizes the situation as exhibited in the foregoing statement:

	October, 1905.	October, 1908.	Increase.	Per Cent. of Increase.
Total number of pupils on register	551,599	611,908	60,309	10.9
Total number of sittings in regular classrooms	557,266	669,889	112,623	20.2

The number of pupils on register in the elementary schools, all boroughs, October, 1908, aggregates 611,908, as against a corresponding register of 551,599 for October, 1905, an increase of 60,309 pupils, representing 10.9 per cent., for the three years intervening, which is an average increase of 3.6 per cent. per year.

The number of sittings in regular classrooms of the elementary schools, all boroughs, October, 1908, aggregates 669,889, as against a corresponding number of 557,266 in October, 1905, an increase of 112,623 sittings during the three years intervening, representing 20.2 per cent., which is an average of 6.7 per cent. per year.

It thus appears that additional sittings have been provided for the elementary schools of the City during the past three years at a rate which is almost double the rate of increase in the number of pupils on register in said schools for the same period, as shown by the Principals' reports for the month of October, each year.

It also appears that the total number of sittings in the elementary schools during the past three years has exceeded the total number of pupils on register therein from forty-one to seventy-seven thousand, while at the same time from sixty-five to eighty-two thousand children have been registered in part time classes owing to a lack of sittings. The figures for this apparent contradiction are as under:

Elementary Schools, All Boroughs.

	October, 1905.	October, 1906.	October, 1907.	October, 1908.
Number of pupils on part time	82,527	81,533	70,994	65,799
Net excess of sittings in regular classrooms as compared with register	5,667	9,990	42,319	57,981
Additional number of sittings in temporary or rented rooms	36,154	21,881	19,674	19,216

In October, 1908, the excess of sittings in regular classrooms, plus the additional number of sittings in rented annexes and in rooms other than classrooms, but used for classroom purposes, aggregated 77,197, as against 65,799 pupils on part time. If said so-called excess sittings could have been fully utilized part time classes might have been eliminated.

Of course, pupils must continue to be organized into classes according to grade of work, in place of making the size of the class conform to the number of sittings in the room occupied, and there will continue to be districts in which, either because the accommodations in a new building exceed the immediate needs of the locality, or because a decreasing population has vacated sittings once needed, as in lower west Manhattan, and so it will happen that with fifteen thousand different classrooms in over five hundred different buildings distributed throughout a great area, a considerable number of sittings must necessarily be unavailable but the fact remains that the figures just quoted emphasize the need of an advance in school organization. For economy alone, if for no other reason, some way should be found to utilize the large number of excess sittings now unavailable, in the elementary schools. Most of said sittings are in rooms occupied by the grammar grades, especially the seventh and eighth year classes. Centrally located intermediate schools, sub-high schools, or some better scheme, should be speedily instituted, to the end that our hundred million dollar public school plant may be utilized to its fullest extent.

The number of new sittings occupied during the year ending October, 1906, as compared with the increase in register for said month, distributed by boroughs, is as follows:

Year Ending October, 1906.

Borough.	Increase in Number of Sittings Over October of Preceding Year.	Per Cent. of Increase in Sittings.	Increase in Register Over October of Preceding Year.	Per Cent. of Increase in Register.
Manhattan	5,723	2.14	157	.06
The Bronx	1,979	3.64	5,184	10.86
Brooklyn	10,211	5.50	12,224	6.28
Queens	7,088	18.83	4,522	12.47
Richmond	1,725	12.94	316	2.68
Total	26,726	4.79	22,403	4.06

During 1906 it became apparent that the school population in the Borough of Manhattan was practically at a standstill and that the Building Committee of the Board of Education was already concentrating its operations in Brooklyn and Queens, 10,211 additional sittings having been provided for the former Borough, and 7,088 for the latter. The rate of increase in both sittings and register for the year was greatest in Queens, in which Borough the school registration increased at the rate of 12.47 per cent. as against 4.06 per cent. for the entire City. Said abnormal rate of increase in school registration in Queens was doubtless due in part to the anticipated opening of the Queensboro Bridge. It has not been maintained, as the corresponding rate of increase dropped to 5.58 per cent. for October, 1907, and 6.05 per cent. for October, 1908, both of which rates, however, are far above the average rate for the City as a whole for the same years.

The rate of increase in school registration for the Borough of The Bronx for 1906 was also abnormal, being 10.86 per cent. as against 4.06 per cent. for the entire City. This again, as in the Borough of Queens, was doubtless largely due to a new development in transportation, being consequent upon the opening of the subway, but unlike in Queens the extraordinary influx of population into the Borough of The Bronx during 1906 was not anticipated by the Board of Education, as will appear from the fact that additional sittings were provided at the rate of only 3.64 per cent. during said year. The rate of increase in registration in the Borough of The Bronx still continues far above the average, being 8.28 per cent. for 1907, as against an average of 3.66 per cent. for the entire City, and 6.40 per cent. for 1908, as against an average of 2.83 for the entire City. The facts just stated illustrate how difficult it is to foresee such migrations of population from one locality to another in time to provide school accommodations therefor, some two years or more being required on an average to get a projected building ready for occupancy.

In the Borough of The Bronx the per cent. of pupils on part time has increased from 1.66 for October, 1905, to 9.59 for October, 1908, said Borough now having a larger percentage of pupils on part time than any other except Brooklyn.

Although 10,211 additional sittings were provided for the Borough of Brooklyn during the year ending October, 1906, there continued to be a great deficiency of sittings in said Borough, 12,224 additional pupils having been added to the register as compared with October of the preceding year. In fact, until within the last few years, for years past the number of pupils on register in the elementary schools of Brooklyn has exceeded considerably its school accommodations as will appear from the following figures taken from the annual reports of the City Superintendent of Schools:

Elementary Schools, Excluding Kindergartens, Borough of Brooklyn.

School Year Ending	Sittings (As Reported by Principals).	Pupils on Register.	Deficiency of Sittings.
July 31, 1899	140,520	141,901	1,381
July 31, 1900	142,817	147,074	4,257
July 31, 1901	149,678	153,107	3,249
July 31, 1902	163,579	171,914	8,335
July 31, 1903	169,650	181,916	12,266
July 31, 1904	169,465	186,385	16,920
July 31, 1905	179,799	194,971	15,172
July 31, 1906	188,246	200,043	11,797
July 31, 1907	205,471	208,945	3,474
July 31, 1908	218,476	218,896	420

At the time of consolidation Brooklyn had over 20,000 children who attended school only half a day, and thousands of pupils were refused admission on account of lack of room. During the two years preceding consolidation the City of Brooklyn was financially unable to provide proper school accommodations for its rapidly increasing population.

The figures for sittings, compiled for the purposes of this report, as given in Exhibit A., show that conditions in the Borough of Brooklyn have now been reversed. The figures for October, 1908, including kindergartens, show 233,437 sittings, as against 226,386 pupils on register, an excess of 7,051 sittings. During the year ending October, 1907, 19,604 additional sittings were provided for Brooklyn, as against an increase of 10,133 pupils on register. During 1908, 18,211 additional sittings were occupied, as against an increase of 9,624 in the register. While additional sittings have been provided at the rate of 10.02 per cent. for 1907, and 8.46 per cent. for 1908, the rate of increase in register for Brooklyn has fallen from 6.28 per cent. for October, 1906, to 4.90 per cent. for October, 1907, and 4.43 per cent. for October, 1908. Brooklyn was provided with 18,211 additional sittings during 1908, as against 32,539 for the entire city, which number represents approximately 56 per cent. of said total. In other words, having 34 per cent. of the entire population, Brooklyn received 56 per cent. of the additional school accommodations provided last year.

The unprecedented building operations of the Board of Education since January 1, 1906, have reduced the number of additional sittings provided in temporary or rented quarters from 36,154 in October, 1905, to 19,216 in October, 1908. It is of interest to note that notwithstanding the 48,026 additional sittings provided for the Borough of Brooklyn during the past three years, said Borough had 3,539 sittings in rented and temporary rooms last October, as against 2,422 in October, 1905, an increase of 1,117.

It is also a striking fact that Brooklyn not only had more pupils in temporary quarters in October, 1908, than in October, 1905, but more children on part time—in spite of said 48,026 additional sittings provided during the time intervening—as will appear from the following figures:

Part-Time Pupils in Brooklyn.

October, 1905	40,853	21.01 per cent.
October, 1906	48,741	23.58 per cent.
October, 1907	43,972	20.28 per cent.
October, 1908	41,800	18.46 per cent.

This is due partly to the fact that the Board of Superintendents has reduced the average number of pupils to a Teacher and so to a classroom from 46 for the school year 1904-05 to 42 for 1907-08, and also to the fact that 86 school rooms in Brooklyn were vacated last spring because they were pronounced in need of better protection against fire, thereby placing over 7,000 pupils on part time temporarily who could otherwise have been accommodated on full time.

While, as shown above, the number on part time in Brooklyn is 41,800 for October, 1908, as against 40,853 for October, 1905, said increase in number represents a decreasing ratio, 21.01 per cent. of the total register being on part time in October, 1905, as against 18.46 per cent. in October, 1908.

In spite of an annual increase of approximately 20,000 pupils per year, the percentage of pupils on register in part-time classes in the City as a whole has steadily decreased during the past three years, as will appear from the following figures as quoted from Exhibit A:

Elementary Schools, All Boroughs.

Year.	Number of Pupils on Part Time.	Per Cent. of Register on Part Time.
October, 1905	82,527	14.96
October, 1906	81,533	14.20
October, 1907	70,994	11.93
October, 1908	65,799	10.75

Notwithstanding all that has been accomplished during the last few years, the Borough of Brooklyn still continues to be in great need of additional school accommodations, and more so than any other Borough, as will appear from the following figures:

October, 1908.

Borough.	Number of Pupils on Part Time.	Per Cent. of Register on Part Time.
Manhattan	14,090	5.29
The Bronx	5,849	9.59
Brooklyn	41,800	18.46
Queens	3,870	8.47
Richmond	190	1.47
	65,799	10.75

The Borough of Brooklyn still has 18.46 per cent. of its elementary school children in part-time classes as against an average of 10.75 for the entire City, and 9.59 per cent. for the Borough of The Bronx, which has the next largest percentage. If the High School situation were to be considered in connection with the elementary schools, this fact would be even more apparent.

The aforesaid Corporate Stock to the amount of $7,415,010 requested for the remainder of the year 1909, is distributed as under:

Request for Corporate Stock for 1909.

Borough of Manhattan	$1,870,000 00
Borough of The Bronx	1,502,000 00
Borough of Brooklyn	2,667,915 00
Borough of Queens	920,000 00
Borough of Richmond	117,000 00
Miscellaneous, all boroughs	338,095 00
	$7,415,010 00

As appears from the above statement, in accordance with the needs of the several boroughs, as hereinbefore set forth, a larger amount of money is requested for the Borough of Brooklyn than for any other Borough. The sum of $416,000 is requested for the erection of a new building at Clarkson and West Houston streets, between Varick and Hudson streets, to replace Public School 125 and old Public School 38, but as the advisability of building on said site is in question I would recommend that said matter be held in abeyance pending a special report thereon.

It should be noted that the title to one lot, 25 by 100 feet, in the site for Public School 168, Throop avenue, Bartlett and Whipple streets, Brooklyn (item 3, Borough of Brooklyn, Schedule A), has not yet vested in the City. Also that the site for Public School 171, Ridgewood, Lincoln and Nichols avenues, Brooklyn (item 10, Borough of Brooklyn, Schedule A), the purchase of which for $33,000 was authorized March 12, 1909, is still in process of acquisition. In each of said cases the need of a new building to relieve pupils now on part time is so urgent that funds should be provided at this time to the end that contracts may be let as soon as title vests, which, the Appraiser of Real Estate assures me, will be in the very near future.

Item 2, Schedule B, aggregating $250,000, is to provide money for the construction of three additional dormitories, a stable, etc., for the New York Parental School, which is located on a farm of 107 acres, on the road from Jamaica to Flushing. Said farm was purchased in 1904, at a total cost of $75,566.23, for the purpose of establishing thereon a home to which incorrigible children might be committed and reformed. Five new buildings, costing approximately $650,000, have been constructed, and are now ready for occupancy, viz.: an administration building, a power house in which the kitchen, bakery and laundry are included, and three dormitories, each having accommodations for 60 boys. The plans call for 11 dormitories, having accommodations for 660 boys and costing approximately $75,000 each.

During the school year 1906-1907 the City maintained on an average 518 truants, of which number 46 were in the Manhattan Truant School, 14 in the hospital on Randalls Island, 178 in the Brooklyn Truant School, 225 in the Catholic Protectory and 55 in the Westchester Temporary Home. It thus appears that three additional dormitories are needed at once in order to enable the Board of Education to care for truants now maintained in outside institutions.

While it is admitted that the City should provide for its truants in some such institution, there is no doubt that the said Parental School and Farm has been projected on extravagant lines. However, it would appear that the project should now be carried forward, as to open and conduct such a costly plant for only 180 boys for any great length of time would be an unwarranted expenditure of the City's money. In order to reduce the per capita cost of maintenance therein it seems necessary to provide accommodations for a larger number of boys. The City is committed to the scheme and it is therefore recommended that funds be made available at once for additional dormitories as requested.

Schedule E, aggregating $338,095, is to provide money for paying the wages of the Draughtsmen, Inspectors, etc., and for surveys, borings and the purchase of draughting materials, said estimate being equal to 5 per cent. of the proposed expenditures. Of said amount $300,000 is for wages of Inspectors and Draughtsmen and the remaining $38,095 for other contingencies, as specified. Inasmuch as $100,000 has recently (March 26, 1909) been authorized for wages of Inspectors and Draughtsmen in the Bureau of Buildings, said sum being sufficient to cover present payrolls until October next, and considering the fact that the work herein proposed will extend over two or three years, it would appear that $100,000 is a sufficient sum to authorize for said purpose at this time, which amount is herewith recommended.

In conclusion, considering the needs of the several boroughs for new school buildings and additions, as herein set forth, and believing that all contracts, plans for which are now in an advanced stage of completion should be awarded without unnecessary delay, I hereby recommend that Corporate Stock, as requested, with the exception of the deduction of $200,000 and $416,000, as hereinbefore mentioned, be authorized under the provisions of section 47 of the Greater New York Charter, according to the resolution attached hereto.

Yours respectfully,

HERMAN A. METZ, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding six million six hundred and ninety-nine thousand and ten dollars ($6,699,010), to provide means for the construction of public school buildings and additions, thereto, the improvement of school premises, etc., in the manner and amounts described hereunder:

District.	School	Location.	Estimated Cost.
		BOROUGH OF MANHATTAN.	
		New Buildings and Additions.	
20	78	Pleasant avenue and One Hundred and Nineteenth street	$182,000 00
7	61	East Twelfth street, between Avenues B and C	316,000 00
20	102	East One Hundred and Thirteenth street, near Second avenue	200,000 00
22	132	Wadsworth avenue and One Hundred and Eighty-second street	120,000 00
1	130	Baxter and Hester streets	316,000 00
5	13	East Houston and Essex streets	156,000 00
22	169	Audubon avenue and One Hundred and Sixty-ninth street	125,000 00
17	72	One Hundred and Fifth street and Lexington avenue	35,000 00
		Alterations.	
9	41	No. 36 Greenwich avenue	4,000 00
		BOROUGH OF THE BRONX.	
		New Buildings and Additions.	
26	46	Bainbridge and Briggs avenues and One Hundred and Ninety-sixth street	312,000 00
25	44	Prospect avenue and One Hundred and Seventy-sixth treet	283,000 00
24	39	Longwood avenue, Kelly and Beck streets	157,000 00
26	47	Randolph street, Lawrence and Hammond avenues	312,000 00
26	45	One Hundred and Eighty-ninth and Hoffman streets and Lorillard place	312,000 00
26	34	Amethyst avenue and Victor street, Van Nest	100,000 00
		Portable Buildings	
26	8	Mosholu parkway	4,500 00
26	14	Throggs Neck	3,000 00
26	15	Westchester avenue	4,500 00
		Grading, Fencing, Sanitary Work, etc.	
24	20	Fox and Barretto streets	14,000 00
		BOROUGH OF BROOKLYN.	
		New Buildings and Additions.	
31	19	South Third and Keap streets	216,000 00
39	167	Schenectady avenue, Eastern parkway and Lincoln place	300,000 00
32	168	Throop avenue, Bartlett and Whipple streets	300,000 00
39	165	Lott and Hopkinson avenues and Amboy street	200,000 00
36	73	McDougal street and Rockaway avenue	169,000 00
38	99	East Ninth and Tenth streets, between Avenues K and L	216,000 00
37	169	Seventh avenue, Forty-third and Forty-fourth streets	200,000 00
32	79	Kosciusko street, near Sumner avenue	200,000 00
37	170	Sixth and Stewart avenues, Seventy-first and Seventy-second streets	316,000 00
40	171	Ridgewood, Lincoln and Nichols avenues	316,000 00
38	100	West Third street, Coney Island	200,000 00
Manual Training High School.		Seventh avenue, Fourth and Fifth streets	10,000 00
42	92	Park and Grinnell avenues and Randolph street, North Corona	130,000 00
43	40	Pacific and Union Hall streets, Jamaica	200,000 00
44	91	Myrtle, Washington and Ridgewood avenues, Glendale	312,000 00
43	24	Queens and Robertson avenues, Flushing	28,000 00
New York Parental School.		Flushing	250,000 00
		BOROUGH OF RICHMOND.	
		New Buildings and Additions.	
46	35	Gordon and Targee streets, Stapleton	112,000 00
		Grading, Fencing, Sanitary Work, etc.	
45	18	Broadway, West New Brighton	5,000 00
		Miscellaneous.	
..	..	Contingencies, all Boroughs	38,095 00
		Total	$6,699,010 00

—and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding six million six hundred and ninety-nine thousand and ten dollars ($6,699,010), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following supplemental report, recommending an issue of $187,500 Special Revenue Bonds for expenses of the Public Service Commission for the year 1909.

$37,500 of said amount is on account of the requisition presented to the Board on December 11, 1908, for an appropriation of $987,500, on account of which the Board has appropriated $950,000, at various meetings, and the balance, $150,000, is on account of the requisition presented to the Board at the meeting held September 17, 1909, for an appropriation in said amount.

(The requisition of December 11, 1908, for an appropriation of $987,500 is printed in the minutes of the meeting of January 8, 1909.)

(The requisition of September 14, 1909, for an appropriation of $150,000, is printed in the minutes of the meeting of September 17, 1909.)

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 27, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—The Public Service Commission of the First District, under date of December 8, 1908, pursuant to provisions of section 14 of chapter 429, Laws of 1907, and chapter 4 of the Laws of 1891, as amended, made requisition upon the Board of Estimate and Apportionment for the sum of $987,500 for its estimated administrative expenses for the year 1909. The amount asked for was exclusive of the salaries of the Commissioners, their Secretary and Counsel, which are paid by the State, according to law.

On January 8 an appropriation of $300,000 was authorized to meet in part the requirements of the requisition. On April 2 a further appropriation of $500,000 for the same purpose was authorized, making a total appropriation of $800,000 for the expenditures of the Commission for the present year.

Under date of September 14 the Commission made a requisition for $187,500, the balance of the total amount of the requisition for the expenditures for 1909. The communication of that date also included a requisition for an additional appropriation of $150,000.

The Board of Estimate and Apportionment, however, did not allow the Commission $337,500, the full amount asked for, but on September 17 an appropriation of $150,000 was authorized. The total amount thus far appropriated for the Commission is $950,000. This amount is $37,500 less than the original estimated expenditures of the Commission for 1909, and $187,500 below the amount now said to be necessary for all expenditures of the Commission for 1909.

In explaining the necessity for an extra appropriation of $150,000, the Commissioners refer to their communication dated December 8, 1908, transmitting their requisition for $987,500 for 1909 to the Board of Estimate and Apportionment. In this communication they anticipated that they might be called upon to request an additional appropriation. That part of the communication was as follows:

"There are now under way, or about to be begun, arbitration proceedings arising out of Contracts Nos. 1 and 2, as well as out of the loop contracts, the expense of which cannot at this time be anticipated. Nor does this Commission at this time estimate the expenses that may necessarily arise from the commencement during the coming year of subway construction for which contracts are not now authorized, or from the supervision and regulation of gas companies after the decision of the Supreme Court of the United States of the case now before it."

In their communication dated September 14, asking for an additional appropriation of $150,000 and the allowance of $187,500, the balance of the requisition for $987,500, the Commissioners said:

"It also becomes necessary to make further requisition for the additional sum of $150,000, which, it is estimated, will be necessary to pay all of the expenses of this Commission during the year 1909. This additional sum is for extraordinary expenses that could not be definitely anticipated when the requisition for ordinary expenses for the year was made."

The additional and extraordinary expenses referred to are for the temporary services of engineers to examine and report upon the claims of contractors for extra construction work; for the employment of experts to appraise the properties of the street surface lines of Manhattan and The Bronx, and all the lines comprised within the Brooklyn Rapid Transit system and the Coney Island and Brooklyn system; for the fees of arbitrators to whom were referred claims of contractors in dispute; for fees of special counsel, extra printing and advertising, and for other expenses beyond that contemplated by the original estimate of expenditures for 1909.

The actual expenditures of the Commission for all purposes from January 1 to October 1 amounted to $821,952.45, as follows:

Salaries	$592,613 31
Employees' disbursements	7,531 13
Stationery, printing, supplies	17,882 43
Library	1,287 33
Rental	51,864 58
Telephone and Telegraph	2,972 99

Furniture and fixtures	6,203 08
Stock	4,882 56
Maps, plans, etc	3,651 64
Instruments	2,247 48
Inspection, tests and analysis	766 03
Electrical laboratory	1,170 61
Fender tests	2,449 04
Advertising	9,316 55
Arbitration, Contract 1	60,826 14
Miscellaneous	5,185 85
Special services	51,101 71
Total	$821,952 46

On the basis of a total actual disbursement of $821,952.46 for the first nine months of the year, the average monthly expenses of the Commission amount to $91,328.05. At this rate the Commission will need $273,984.15 for expenses for the last three months of the year. The actual disbursements for nine months, and the estimated disbursements for three months, based on the former would amount to $1,095,936.61. The requisitions of the Commission fix the total expenditures at $1,137,500, which sum is $41,563.39 in excess of an estimate based on an expenditure for nine months.

The expenditures of the Commission vary from month to month. It is therefore difficult to estimate on future expenditures based on past expenditures. The real estate experts, special counsel and arbitrators are employed when their services are considered necessary. According to the Auditor of the Commission, a considerable portion of the charges for "extraordinary expenses that could not be definitely anticipated when the requisition for ordinary expenses for the year was made," will become liabilities during the latter part of this year. These charges, it is claimed, will amount to as much as, if not more than, the difference of $41,563.39 between the estimated expenditures for the year based on expenditures for nine months and the total amount of requisitions made by the Commissioners.

It would appear that the expenditures of the Commission for a year are not fixed at a stated figure. The Commission makes requisition for the amount of the estimated expenditures, and if the appropriation is authorized, Special Revenue Bonds are issued from time to time to meet the expenditures of the Commission. Should the appropriation be in excess of the amount actually required, such excess would remain unissued.

In view of the facts herein stated, I would recommend that a further issue of Special Revenue Bonds be authorized for the use of the Commission which will pay the expenses of the Commission to the end of the year.

The adoption of the resolution attached hereto is accordingly recommended.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 10, chapter 4, of the Laws of 1891, as amended, and section 14, chapter 429 of the Laws of 1907, as amended, and on account of the requisition of the Public Service Commission for the First District for an appropriation of nine hundred and eighty-seven thousand five hundred dollars ($987,500), duly made by the Chairman and Secretary thereof on December 8, 1908, the sum of thirty-seven thousand five hundred dollars ($37,500) be and is hereby provided in addition to the following amounts heretofore authorized on said requisition for the expenses of said Commission for the year 1909, viz.:

January 8, 1909	$300,000 00
April 2, 1909	500,000 00
September 17, 1909	150,000 00
	$950,000 00

—and be it further

Resolved, That on account of the requisition of the said Public Service Commission for the First District for a further appropriation of one hundred and fifty thousand dollars ($150,000), in addition to the above, duly made by the Chairman and Secretary thereof on September 14, 1909, the said sum of one hundred and fifty thousand dollars ($150,000) be and is hereby provided and appropriated as follows:

Salaries and fixed charges	$108,000 00
Special services	42,000 00
	$150,000 00

—in addition to the amounts already authorized to meet the requirements of said Commission to the end of the year 1909, the unexpended balance of any previous appropriation made by this Board upon the requisition of said Commission, or by the former Board of Rapid Transit Railroad Commissioners, to be applied to the same purpose; and be it further

Resolved, That for the purpose of providing for the payment of so much thereof as may be in excess of said unexpended balance, the Comptroller be and is hereby authorized and directed to issue and sell Special Revenue Bonds of The City of New York to an amount not exceeding one hundred and eighty-seven thousand five hundred dollars ($187,500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communications from the President, Department of Taxes and Assessments, requesting, and report recommending, a modification of the schedules of Salaries and Salaries and Wages, accompanying the Budget for the year 1909, for the Department of Taxes and Assessments, involving no additional appropriation:

DEPARTMENT OF TAXES AND ASSESSMENTS,
HALL OF RECORDS,
BOROUGH OF MANHATTAN, October 13, 1909.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment*, No. 277 Broadway, City:

DEAR SIR—I beg to make application to the Board of Estimate and Apportionment to revise the schedule supporting Appropriation Account No. 978, Salaries and Wages, made in the Budget for 1909, for the Department of Taxes and Assessments, to read as follows:

	Increase.	Decrease.
Line No. 7—5 Deputy Tax Commissioners, at $3,500, $17,500.	$500 00	.....
Line No. 9—3 Deputy Tax Commissioners, at $3,000, $9,000..	.....	$500 00
Line No. 16—15 Deputy Tax Commissioners, at $1,800, $27,000	.....	1,800 00
Add Line No. 40—2 Book Typewriters, at $900, $1,800.....	1,800 00	.....
	$2,300 00	$2,300 00

I would ask you to submit this to the Comptroller, and if it meets with his approval, please put on your calendar for the next meeting.

Yours truly,

LAWSON PURDY, President.

DEPARTMENT OF TAXES AND ASSESSMENTS,
HALL OF RECORDS,
BOROUGH OF MANHATTAN, October 26, 1909.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment*, No. 277 Broadway, City:

DEAR SIR—I would respectfully beg that this further application be attached to the one already in your hands, revising the Budget schedule of this Department for the year 1909:

Line 14—17 Deputy Tax Commissioners, at $2,100.....	$35,700 00	
Line 15—4 Deputy Tax Commissioners, at $1,950.....	7,800 00	
Line 41—Unexpended balance	1,300 00	
		$44,800 00

—to be changed so as to read:

Line 14—16 Deputy Tax Commissioners, at $2,100.....	$33,600 00	
Line 15—5 Deputy Tax Comaissioners, at $1,950.....	9,750 00	
Line 41—Unexpended balance	1,450 00	
		44,800 00

—to be in accord with the rules and regulations of the Department of Finance.

Respectfully,

LAWSON PURDY, President.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In reference to two communications from the President of the Department of Taxes and Assessments, dated October 25, requesting modifications of the schedule accompanying appropriation item No. 978, entitled Salaries and Wages in the Budget for the year 1909, I beg to report the following proposed changes:

Positions and Grades Eliminated.

Deputy Tax Commissioner, 1 at $3,000	$3,000 00
Deputy Tax Commissioner, 1 at $2,100	2,100 00
Deputy Tax Commissioners, 2 at $1,800 each	3,600 00
	$8,700 00

Positions and Grades Substituted.

Deputy Tax Commissioner, 1 at $3,500	$3,500 00
Deputy Tax Commissioner, 1 at $1,950	1,950 00
Book Typewriters, 2 at $900 each	1,800 00
Unassigned balance	1,450 00
	$8,700 00

Inasmuch as the changes asked for will result in no increase in the yearly rate of expenditure for salaries and wages over that provided for in the Budget for 1909, I would recommend the approval of the requests in accordance with the resolutions hereto attached.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment approves of the following Budget Schedule as revised for the Department of Taxes and Assessments for the year 1909:

Department of Taxes and Assessments—

978. Salaries and Wages:

President	$8,000 00
Commissioners, 6 at $7,000 each	42,000 00
Secertary	4,000 00
Assistant Secretary	3,200 00
Assistant to Commissioner	3,500 00
Assistants to Commissioners, 6 at $2,500 each	15,000 00
Deputy Tax Commissioners, 5 at $3,500 each	17,500 00
Deputy Tax Commissioners, 3 at $3,250 each	9,750 00
Deputy Tax Commissioners, 3 at $3,000 each	9,000 00
Deputy Tax Commissioner	2,850 00
Deputy Tax Commissioners, 16 at $2,700 each	43,200 00
Deputy Tax Commissioners, 11 at $2,550 each	28,050 00
Deputy Tax Commissioners, 5 at $2,250 each	11,250 00
Deputy Tax Commissioners, 16 at $2,100 each	33,600 00
Deputy Tax Commissioners, 5 at $1,950 each	9,750 00
Deputy Tax Commissioners, 14 at $1,800 each	25,200 00
Surveyor	7,000 00
Chief Deputy of Real Estate	7,000 00
Chief Deputy of Personal Estate	4,000 00
Expert Real Estate Appraiser	4,000 00
Chief Clerk	3,000 00
Chief Clerks, 3 at $2,550 each	7,650 00
Clerks, 4 at $1,800 each	7,200 00
Clerk	1,650 00
Clerks, 21 at $1,500 each	31,500 00
Clerks, 11 at $1,350 each	14,850 00
Clerks, 10 at $1,200 each	12,000 00
Clerks, 29 at $1,050 each	30,450 00
Clerks, 8 at $900 each	7,200 00
Clerks, 26 at $750 each	19,500 00
Clerks, 10 at $600 each	6,000 00
Clerk	540 00
Searchers, 7 at $1,200 each	8,400 00
Confidential Stenographers, 2 at $1,500 each	3,000 00
Confidential Stenographer	1,350 00
Confidential Stenographers, 3 at $1,200	3,600 00
Messenger	1,650 00
Messengers, 2 at $1,350 each	2,700 00
Messengers, 2 at $1,200 each	2,400 00
Book Typewriters, 2 at $900 each	1,800 00
Unassigned balance	1,450 00
	$455,740 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communication from the Coroner's Physicians, Borough of Queens, requesting that the sum of $500 be added to the salary of each of said Physicians for the year 1910, together with report recommending that said request be denied, in view of the fact that the amount allowed in the Budget for 1910 for contingencies is ample to meet the expenses of the Coroner's Physicians:

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—Under date of October 13, 1909, the Coroner's Physicians, Queens County, in a communication to your Board, requested that the sum of $500 be added to the salary of each of the Coroner's Physicians for the year 1910. This having been referred to me for consideration I would report that the needs and requirements of the Coroner's office in the Borough of Queens for contingency expenses have been considered in the preparation of the tentative Budget for 1910 and an additional amount of $500 recommended to be appropriated for the year. The amount recommended to be allowed for contingencies exclusive of the cost of telephone service is $2,500, and in the light of past experience this would seem to be ample to meet the expenses of the Coroner's Physicians. I would therefore recommend that their request for an extra allowance of $500 each in addition to their salaries, to cover their expenses, be not approved.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the request of the Coroner's Physicians of Queens County, that the sum of five hundred dollars ($500) be added to the salary of each of the Coroner's Physicians for the year 1910, be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—14.

The Comptroller presented the following communications from the President, Borough of Brooklyn, requesting, and report recommending, a modification of the schedules of Salaries and Salaries and Wages accompanying the Budget for the year 1909, for the office of the President of the Borough of Brooklyn, involving no additional appropriation:

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 21, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—Application is hereby made for a modification of Salary Schedule No. 1365, Salaries, General Administration, Office of the President of the Borough of Brooklyn, to read as follows:

Three (3) Messengers at $1,050, one (1) Automobile Engineman at $1,095, instead of two (2) Messengers at $1,050, two (2) Automobile Enginemen at $1,095.

The object of this request is, as you can readily see, to provide for an additional Messenger in this office, which can be done by the dropping of one Automobile Engineman from the schedule, thereby involving no additional appropriation or transfer of money.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 25, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—Application is hereby made for a modification of Salary Schedule No. 1369, Bureau of Highways, Administration, Salaries, Office of the President of the Borough of Brooklyn, to read:

One Typewriting Copyist, at $750 per annum, instead of one Stenographer and Typewriter at $750 per annum.

The object of this request is to enable me to appoint a Typewriting Copyist at the above salary, which I cannot do until the salary schedule is modified as requested above.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 26, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—In connection with modification of Salary Schedule No. 1365, General Administration, Salaries and Wages, President, Borough of Brooklyn, with reference to providing for promotion of a Clerk from $1,050 to $1,200 per annum, that the money necessary for this transfer can be obtained by using the unassigned balance of $150 in Schedule No. 1377, Bureau of Sewers, Administration, Salaries, and I recommend that this be done.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN. October 11, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—Application is hereby made for a modification of Salary Schedule No. 1389, Office of the President of the Borough of Brooklyn, Bureau of Buildings, Administration, Salaries and Wages, to read: Two Clerks at $1,650 per annum each, and four Clerks at $1,350 per annum each, instead of one Clerk at $1,650 per annum, and five Clerks at $1,350 per annum.

The object of this request is to enable me to increase the salary of a competent Clerk from $1,350 to $1,650 per annum, and the money necessary to accomplish this can be taken from the unassigned balance, therefore requiring no additional appropriation.

I would further respectfully request that Salary Schedule No. 1390, Office of the President of the Borough of Brooklyn, Bureau of Buildings, Inspection and Field Force, Salaries and Wages, be modified to read: Three Inspectors of Plumbing at $1,800 each and six Inspectors of Plumbing at $1,500 each, instead of two at $1,800 per annum each and seven at $1,500 per annum each.

The object of this request is to enable me to increase the salary of a competent Inspector of Plumbing from $1,500 to $1,800 per annum, and the money necessary for this purpose can be obtained from the unassigned balance, therefore requiring no additional appropriation.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN.
BROOKLYN, October 13, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—I would respectfully request that you consider this application for a modification of Salary Schedule No. 1365, General Administration, Office of the President of the Borough of Brooklyn, reading as follows, as a substitute for the request dated October 5:

Two Clerks at $1,650 per annum, two Clerks at $1,500 per annum, three Stenographers at $1,500 per annum and one Clerk at $1,050 per annum, instead of five Stenographers at $1,500 per annum and two Clerks at $1,050 per annum.

For the purpose of this modification it will be necessary to transfer the sum of $187.50 for the balance of the year, which sum is available for transfer from the account of Salary Schedule No. 1377, Administration, Salaries and Wages, Bureau of Sewers, Office of the President of the Borough of Brooklyn, through the promotion of the Telephone Operator to Clerk, and his subsequent transfer to the payroll of Salary Schedule No. 1378, Engineering Division, Technical Staff, Bureau of Sewers, Office of the President of the Borough of Brooklyn.

The object of this request is to enable me to change the title of two of the present Stenographers to Clerks, with an increase in salary of $150 each, for meritorious services, and also to enable me to promote one second grade Clerk, at a salary of $1,050 per annum, to Clerk, third grade, at a salary of $1,500 per annum, for faithful and meritorious services.

Yours truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 15, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—Application is hereby made for a further modification of Salary Schedule No. 1365, General Administration, Office of the President of the Borough of Brooklyn, to read as follows:

One Clerk at $1,200 per annum, instead of one Clerk at $1,050 per annum.

For the purpose of this modification, it will be necessary to transfer the sum of $37.50 for the remainder of the year, which sum is available for transfer from account of Salary Schedule No. 1377, Administration, Salaries, Bureau of Sewers, Office of the President of the Borough of Brooklyn.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

THE CITY OF NEW YORK,
OFFICE OF THE PRESIDENT, BOROUGH OF BROOKLYN,
BROOKLYN, October 19, 1909.

Hon. HERMAN A. METZ, *Comptroller, City of New York:*

DEAR SIR—Under date of October 13, 1909, I requested a modification of Salary Schedule No. 1365, General Administration, Office of the President of the Borough of Brooklyn, and stated that for the purpose of this modification it would be necessary to transfer the sum of $187.50 for the remainder of the year, and stated further that the money was available for this purpose from the account of Salary Schedule No. 1377, Administration, Salaries and Wages, Bureau of Sewers, Office of the President of the Borough of Brooklyn, through the position of Telephone Operator at $750 per annum being unfilled. I presumed, of course, that in making this recommendation, it would be construed as recommending the cutting out of the position of Telephone Operator at $750 per annum. In order, however, that there would be no mistake, I wish to state that it was my intention to do so, and therefore recommend that it be done now in order to provide the necessary money for the purpose of this modification.

I also requested, under date of October 11, 1909, modification of Salary Schedule No. 1390, Office of the President of the Borough of Brooklyn, Bureau of Buildings, Inspection and Field Force, Salaries and Wages, in order to permit me to increase the salary of one Inspector of Plumbing from $1,500 to $1,800 per annum, and stated at that time that the money necessary could be obtained from the unassigned balance in said schedule account. It appears, however, that under date of October 8, 1909, the unassigned balance in this account was disposed of by the Board of Estimate and Apportionment at its meeting on that date, when it modified the schedule to permit the increasing of the salary of an Inspector of Plumbing from $1,800 to $2,400 per annum. In view thereof, it will now be necessary to cut out one Inspector of Elevators at $1,200 per annum, which at present is unfilled, creating an unassigned balance of $900 in Schedule No. 1390 in order to permit the modification requested, and I would therefore request that this be done.

Yours very truly,
BIRD S. COLER, President, Borough of Brooklyn.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 26, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of communications from the President of the Borough of Brooklyn, under dates of October 11, 13, 15, 19, 21, 25 and 26, requesting certain modifications in the schedules supporting appropriations of Salaries and Wages, 1365, 1369, 1377, 1389 and 1390, in the Budget of 1909, I submit the following report. The proposed changes are as follows:

Positions and Grades Eliminated.

1365.	2 Stenographers at $1,500	$3,000 00	
	2 Clerks at $1,050	2,100 00	
	1 Automobile Engineman at $1,095	1,095 00	
1369.	1 Stenographer at $750	750 00	
1377.	1 Telephone Operator at $750	750 00	
	Unassigned balance	150 00	
1389.	1 Clerk at $1,350	1,350 00	
	Unassigned balance	750 00	
1390.	1 Inspector of Plumbing at $1,500	1,500 00	
	1 Inspector of Elevators at $1,200	1,200 00	
			$12,645 00

Positions and Grades Substituted.

1365.	2 Clerks at $1,650	$3,300 00	
	1 Clerk at $1,500	1,500 00	
	1 Clerk at $1,200	1,200 00	
	1 Messenger at $1,050	1,050 00	
	Unassigned balance	45 00	
1369.	1 Typewriting Copyist at $750	750 00	
1389.	1 Clerk at $1,650	1,650 00	
	Unassigned balance	450 00	
1390.	1 Inspector of Plumbing at $1,800	1,800 00	
	Unassigned balance	900 00	
			$12,645 00

Inasmuch as the changes asked for will result in no increase in the yearly rate of expenditures for salaries and wages over that provided for in the Budget of 1909, I would recommend the approval of the request in accordance with the resolutions hereto attached.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment approves of the following Budget schedules, as revised, for the President of the Borough of Brooklyn for the year 1909:

General Administration—

1365. Salaries and Wages:

President of the Borough	$7,500 00	
Commissioner of Public Works	6,000 00	
Assistant Commissioner of Public Works	5,000 00	
Consulting Engineer	8,000 00	
Secretary of the Borough	4,000 00	
Secretary	4,000 00	
Secretary to Commissioner	3,000 00	
Bookkeeper	3,000 00	
Bookkeeper	1,800 00	
Executive Clerk	2,400 00	
Confidential Inspector	2,100 00	
Stenographers, 2 at $2,100 each	4,200 00	
Stenographers, 3 at $1,500 each	4,500 00	
Stenographers, 3 at $1,200 each	3,600 00	
Chief Clerk	3,000 00	
Clerks, 2 at $2,100 each	4,200 00	
Clerks, 2 at $1,800 each	3,600 00	
Clerks, 2 at $1,650 each	3,300 00	
Clerks, 2 at $1,500 each	3,000 00	
Clerk	1,200 00	
Clerk	750 00	
Messengers, 3 at $1,050 each	3,150 00	
Automobile Engineman	1,095 00	
Office Boys, 3 at $540 each	1,620 00	
Unassigned balance	45 00	
		$84,060 00

Bureau of Sewers, Administration—

1377 Salaries and Wages:

Superintendent	$5,000 00	
Assistant Superintendent of Maintenance and Repairs	2,250 00	
Clerk	2,550 00	
Clerks, 2 at $2,100 each	4,200 00	
Clerks, 2 at $1,800 each	3,600 00	
Clerk	1,500 00	
Clerk with special knowledge of handwriting	1,500 00	
Clerk with knowledge of typewriting	1,200 00	
Clerk with knowledge of statistics	1,200 00	
Stenographers, 2 at $1,200 each	2,400 00	
Typewriter Copyist	1,050 00	
Foreman of Repair Yards	1,800 00	
Inspectors of Sewers and Basins, 7 at $1,200 each	8,400 00	
Inspectors of Connections, 9 at $1,200 each	10,800 00	
Messenger	1,050 00	
		$48,500 00

Bureau of Highways, Administration—

1369. Salaries and Wages:

Superintendent	$5,000 00	
Chief Clerk	3,000 00	
Supervisor of Complaints	2,550 00	
Clerks, 3 at 2,100 each	6,300 00	
Clerks, 2 at $900 each	1,800 00	
Cashier	1,200 00	
Stenographer	1,200 00	
Clerks, 2 at $1,500 each	3,000 00	
Stenographers, 2 at $1,050 each	2,100 00	
Typewriting Copyist	750 00	
Office Boy	540 00	
		$27,440 00

Bureau of Buildings, Administration—

1389. Salaries and Wages:

Superintendent	$5,000 00	
Assistant Superintendent	4,000 00	
Chief Clerk	3,000 00	
Secretary to Superintendent	3,000 00	
Plan Examiner	2,400 00	
Plan Clerk	1,650 00	
Assistant Engineers, 2 at $1,800 each	3,600 00	
Clerk	1,800 00	
Clerks, 2 at $1,650 each	3,300 00	
Clerks, 4 at $1,350 each	5,400 00	
Clerks, 6 at $1,050 each	6,300 00	
Clerk	750 00	
Clerk	540 00	
Stenographer and Book Typewriter	1,200 00	
Typewriting Copyists, 2 at $1,200 each	2,400 00	
Typewriting Copyist	1,050 00	
Typewriting Copyist	900 00	
Messengers, 2 at $1,050 each	2,100 00	
Process Servers, 4 at $1,050 each	4,200 00	
Unassigned balance	450 00	
		$53,040 00

Inspection and Field Force—

1390. Salaries and Wages:

Chief Inspectors, 2 at $2,500 each	$5,000 00	
Chief Inspector of Plumbing	1,800 00	
Inspector of Plumbing	2,400 00	
Inspectors of Plumbing, 2 at $1,800 each	3,600 00	
Inspector of Plumbing	1,650 00	
Inspectors of Plumbing, 6 at $1,500 each	9,000 00	
Inspectors of Plumbing, 5 at $1,350 each	6,750 00	
Inspectors of Plumbing, 14 at $1,200 each	16,800 00	
Inspectors of Carpentry and Masonry, 5 at $2,400 each	12,000 00	
Inspectors of Carpentry and Masonry, 7 at $1,800 each	12,600 00	
Inspectors of Carpentry and Masonry, 24 at $1,500 each	36,000 00	
Inspectors of Carpentry and Masonry, 11 at $1,350 each	14,850 00	
Inspectors of Carpentry and Masonry, 13 at $1,200 each	15,600 00	
Inspector of Elevators	2,400 00	
Inspectors of Elevators, 2 at $1,500 each	3,000 00	
Inspectors of Elevators, 4 at $1,200 each	4,800 00	
Inspector of Iron and Steel	1,650 00	
Inspector of Iron and Steel	1,200 00	
Automobile Engineman	1,095 00	
Unassigned balance	900 00	
		$153,095 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—14.

The following resolution was offered:

Resolved, That the sum of two hundred and twenty-five dollars ($225) be and the same is hereby transferred from the appropriation made to the office of the President of the Borough of Brooklyn for the year 1909, entitled Bureau of Sewers, Administration (No. 1377), Salaries and Wages, the same being in excess of the amount required for the purposes thereof, to the appropriation made to said office for the year 1909, entitled General Administration (No. 1365), Salaries and Wages, the amount of said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—14.

The Comptroller presented the following communication from the Commissioner of Parks, Boroughs of Manhattan and Richmond, requesting, and report recommending, the transfer of $3,194.94, as requested by said Commissioner, within the appropriation made to said Department for the year 1909:

DEPARTMENT OF PARKS, MANHATTAN AND RICHMOND,
THE ARSENAL, CENTRAL PARK,
October 18, 1909.

To the Board of Estimate and Apportionment, The City of New York:

DEAR SIRS—Application is hereby made to your Honorable Board for the following transfers in the Budget appropriation, Maintenance of American Museum of Natural History, 1909:

From

776.	Salaries and Wages	$2,000 00
782.	Fuel	1,000 00
777.	Telephones	150 00
780.	Repairs and Replacements by Contract or Open Order	24 74
781.	Apparatus and Machinery	20 20
		$3,194 94

To 779, Materials for Repairs and Replacements by Departmental Labor, the same being necessary for the proper administration of the Museum under the City appropriation.

Respectfully,
HENRY SMITH, Commissioner.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 26, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Commissioner of Parks, Boroughs of Manhattan and Richmond, under date of October 18, 1909, requesting certain transfers within the appropriations made for that Department for the year 1909, which was referred to me for consideration, I would submit the following report:

An examination discloses the fact that there is insufficient funds in the appropriation made for the Maintenance of American Museum of Natural History for the account, entitled No. 779, Material for Repairs and Replacements by Departmental Labor, to purchase the necessary materials required for the balance of the year, whereas there has been a saving in other appropriations made to the same Department. It is the Commissioner's desire to replenish this account by transferring the unexpended balances. In view of the fact that said transfers entail no additional cost to the City for the maintenance of the museum, I recommend favorable consideration of the resolution hereunto attached.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the sum of three thousand one hundred and ninety-four dollars and ninety-four cents ($3,194.94) be and the same is hereby transferred from the appropriations made for the Department of Parks, Boroughs of Manhattan and Richmond for the year 1909, entitled and as follows:

Maintenance of American Museum of Natural History—

776.	Salaries and Wages	$2,000 00	
782.	Fuel	1,000 00	
777.	Telephones, Rental of	150 00	
780.	Repairs and Replacements by Contract or Open Order	24 74	
781.	Apparatus—Machinery, Vehicles, Horses; Equipment, Care and Storage of Same	20 20	
			$3,194 94

—the same being in excess of the amounts required for the purposes thereof, to the appropriation made said Department the year 1909, entitled Maintenance of American

Museum of Natural History (No. 779), Material for Repairs and Replacements by Departmental Labor, the amount of said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—14.

The Comptroller presented the following communication from the Commissioners of Accounts requesting, and report thereon, recommending a modification of the schedules of Salaries and Salaries and Wages, accompanying the Budget for the year 1909, for the office of the Commissioners of Accounts, involving no additional appropriation:

OFFICE OF THE COMMISSIONERS OF ACCOUNTS,
STEWARD BUILDING, No. 280, BROADWAY,
NEW YORK, October 19, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—In order to readjust the payroll schedules of this office it will be necessary to transfer the sum of $600 from our 1909 budgetary appropriation, entitled Salaries and Wages, Accounting Staff (No. 955), to our 1909 budgetary appropriation entitled Salaries and Wages, Inspection Staff, Engineering and Special (No. 956), and we hereby request that such transfer be authorized.

We also submit for your approval amended salaries schedules pursuant to resolution of your Honorable Board, adopted in connection with the 1909 Budget.

Respectfully,

JOHN PURROY MITCHEL,
HENRY C. BUNCKE,
Commissioners of Accounts.

COMMISSIONERS OF ACCOUNTS.

Amended Schedules Submitted October 29, 1909.

Accounting Staff—

955. Salaries and Wages:

Chief Examiner of Accounts	$4,000 00	
Chief Examiners of Accounts, 3 at $3,500 each	10,500 00	
Chief Examiners of Accounts, 6 at $3,000 each	18,000 00	
Chief Examiners of Accounts, 5 at $2,500 each	12,500 00	
Examiner of Accounts	2,250 00	
Examiner of Accounts	2,100 00	
Examiners of Accounts, 3 at $2,000 each	6,000 00	
Examiners of Accounts, 7 at $1,800 each	12,600 00	
Examiners of Accounts, 3 at $1,500 each	4,500 00	
Accountants, 8 at $2,400 each	19,200 00	
Accountants, 7 at $2,100 each	14,700 00	
Accountants, 4 at $1,950 each	7,800 00	
Accountants, 2 at $1,750 each	3,500 00	
Accountants, 4 at $1,650 each	6,600 00	
Clerks, 4 at $1,650 each	6,600 00	
Clerks, 2 at $1,500 each	3,000 00	
Clerks, 3 at $1,200 each	3,600 00	
Clerks, 2 at $1,050 each	2,100 00	
Clerks, 4 at $900 each	3,600 00	
Clerk	750 00	
Clerks, 2 at $540 each	1,080 00	
Clerk	480 00	
		$145,460 00

Inspection Staff, Engineering and Special—

956. Salaries and Wages:

Chief Engineer	$4,500 00	
Examining Engineer	3,500 00	
Examining Engineer	2,200 00	
Law Examiner	2,500 00	
Examining Inspector	2,250 00	
Examining Inspestors, 6 at $1,800 each	10,800 00	
Examining Inspectors, 3 at $1,500 each	4,500 00	
Auto Engineman	1,200 00	
		$31,450 00

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Commissioners of Accounts, dated October 19, 1909, requesting a transfer of funds and a modification of the schedules supporting the budgetry appropriations Salaries and Wages for 1909, referred to me for consideration, I would report as follows:

The Commissioners of Accounts state that in order to readjust the payroll schedules of their office, it will be necessary to transfer six hundred dollars from the appropriation entitled No. 955, Salaries and Wages, Accounting Staff, to the appropriation entitled No. 956, Salaries and Wages, Inspection Staff, Engineering and Special.

There is also submitted for your approval amended salary schedules which are necessary to be made to effect their reconcilement with the payroll conditions of the office.

Inasmuch as the schedule modifications result in no increase in the yearly ratio of expenditures for salaries over that provided for in the 1909 Budget, I recommend the approval of the request.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules supporting the appropriations made in the Budget for 1909, for the Commissioners of Accounts of The City of New York, as further revised and modified, as follows:

Accounting Staff—

955. Salaries and Wages:

Chief Examiner of Accounts	$4,000 00	
Chief Examiner of Accounts, 3 at $3,500 each	10,500 00	
Chief Examiner of Accounts, 6 at $3,000 each	18,000 00	
Chief Examiner of Accounts, 5 at $2,500 each	12,500 00	
Examiner of Accounts	2,250 00	
Examiner of Accounts	2,100 00	
Examiner of Accounts, 3 at $2,000 each	6,000 00	
Examiner of Accounts, 7 at $1,800 each	12,600 00	
Examiner of Accounts, 3 at $1,500 each	4,500 00	
Accountants, 8 at $2,400 each	19,200 00	
Accountants, 7 at $2,100 each	14,700 00	
Accountants, 4 at $1,950 each	7,800 00	
Accountants, 2 at $1,750 each	3,500 00	
Accountants, 4 at $1,650 each	6,600 00	
Clerks, 4 at $1,650 each	6,600 00	
Clerks, 2 at $1,500 each	3,000 00	
Clerks, 3 at $1,200 each	3,600 00	
Clerks, 2 at $1,050 each	2,100 00	
Clerks, 4 at $900 each	3,600 00	
Clerk	750 00	
Clerks, 2 at $540 each	1,080 00	
Clerk	480 00	
		$145,460 00

Inspection Staff, Engineering and Special—

956. Salaries and Wages:

Chief Engineer	$4,500 00	
Examining Engineer	3,500 00	
Examining Engineer	2,200 00	
Law Examiner	2,500 00	
Examining Inspector	2,250 00	
Examining Inspectors, 6 at $1,800 each	10,800 00	
Examining Inspectors, 3 at $1,500 each	4,500 00	
Auto Engineman	1,200 00	
		$31,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The following resolution was offered:

Resolved, That the sum of six hundred dollars ($600) be and the same is hereby transferred from the appropriation made to the office of the Commissioners of Accounts for the year 1909 entitled Accounting Staff (No. 955), Salaries and Wages, the same being in excess of the amount required for the purposes thereof, to the appropriation made to said office for the year 1909 entitled Inspection Staff (No. 956), Engineering and Special, the amount of said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communication from the Secretary, Board of Education, requesting, and report thereon recommending, a modification of the schedules of Salaries and Salaries and Wages accompanying the Budget for the year 1909, for the Department of Education, involving no additional appropriation:

BOARD OF EDUCATION,
PARK AVENUE AND FIFTY-NINTH STREET,
NEW YORK, October 21, 1909.

Hon. HERMAN A. METZ, *Comptroller:*

DEAR SIR—In addition to the requests for modifications of Budget Salary schedules transmitted by President Winthrop this day, I beg leave to submit the following additional request, with his approval:

No. 864, Bureau of Buildings, Division of Repairs. Salaries and Wages.

Strike out Mechanical Draftsmen, $1,347.50, and Mechanical Draftsmen, $2,086.67, and insert Mechanical Draftsmen, $2,434.17.

Strike out Inspectors of Masonry and Carpentry, $16,272, and insert Inspectors of Masonry and Carpentry, $16,672.

Strike out Architectural Draftsmen, $11,503.32, and insert Architectural Draftsmen, $11,903.32.

Strike out Draftsmen's Helpers, $1,372.92, and insert Draftsmen's Helpers, $1,422.92.

Strike out Wiremen, not to exceed $4.50 a day, $7,959.50, and insert Wiremen, not to exceed $4.50 a day, $8,109.50.

Respectfully yours,

A. EMERSON PALMER, Secretary, Board of Education.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—I am in receipt of a communication from the Secretary of the Board of Education requesting modifications in Budget Schedule No. 864, Salaries and Wages, Bureau of Buildings, Division of Repairs, as under:

Strike out Mechanical Draftsmen, $1,347.50, and Mechanical Draftsmen, $2,086.67, and insert Mechanical Draftsmen, $2,434.17.

Strike out Inspectors of Masonry and Carpentry, $16,272, and insert Inspectors of Masonry and Carpentry, $16,672.

Strike out Architectural Draftsmen, $11,503.32, and insert Architectural Draftsmen, $11,903.32.

Strike out Draftsmen's Helpers, $1,372.92, and insert Draftsmen's Helpers, $1,422.92.

Strike out Wiremen, not to exceed $4.50 a day, $7,959.50, and insert Wiremen, not to exceed $4.50 a day, $8,109.50.

As the proposed modifications involve no change in the total appropriation, I would recommend that they be made as requested, according to the resolution attached hereto

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedule, as revised, for the Department of Education for the year 1909:

Special School Fund, Maintenance, Salaries and Wages—

864. Bureau of Buildings, Division of Repairs:

Inspector of Mason's Materials	$2,860 00
Cleaner	1,000 00
Clerk	950 00
Inspectors of Masonry	9,415 28
General Inspector	2,347 50
Electrical Inspectors	8,529 28
General Inspector of Repairs	2,347 50
Inspectors of Repairs	20,019 50
Inspectors of Carpentry	4,516 00
Heating and Ventilating Inspectors	20,370 50
Inspector of Light and Ventilation	1,565 00
Sanitary Inspectors	16,632 67

Inspectors of Masonry and Carpentry	20,271 50	
Architectural Draftsmen	18,945 87	
Assistant Architectural Draftsmen	2,330 05	
Junior Assistant Architectural Draftsmen	817 09	
Mechanical Draftsmen	2,434 17	
Foremen Carpenters	1,825 83	
Plumbers, not to exceed $5 a day each	3,443 00	
Machinists' Helpers	1,408 50	
Batterymen	2,695 50	
Linemen (Electricians) not to exceed $4.50 a day each	1,408 50	
Thermostat Repairers	4,564 58	
Steamfitters, not to exceed $5 a day each	3,130 00	
Roofers, not to exceed $3.75 a day each	1,408 50	
Drivers	939 00	
Wiremen, not to exceed $4.50 a day each	8,109 50	
Steamfitters' Helpers	1,878 00	
Tinners, not to exceed $4.50 a day each	1,408 50	
Gasfitters, not to exceed $5 a day each	1,565 00	
Pipefitters' Helpers	939 00	
Painters, not to exceed $4 a day each	2,191 00	
Carpenters, not to exceed $5 a day each	7,042 50	
Plumbers' Apprentices	626 00	
Electricians, not to exceed $4.50 a day each	4,077 17	
Furniture Inspectors	3,756 00	
Draftsmen's Helpers	1,422 92	
Upholsterers, not to exceed $4 a day	1,095 50	
		$190,286 41

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Mnahattan—16.

The Comptroller presented the following communication from the Public Administrator, New York County, requesting the establishment of the grade of position of Messenger in the office of the Public Administrator, New York County, with salary at the rate of $1,200 for one incumbent, together with report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the granting of said request.

(On September 17, 1909, this matter was referred to the above Select Committee.)

BUREAU OF THE PUBLIC ADMINISTRATOR,
No. 119 NASSAU STREET, ROOM 1025,
NEW YORK, July 30, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—I have this day written to your honorable Board enclosing my estimate for the year 1910, and a request that the salary of my Messenger be raised to the sum of $1,200. In connection with my request, I now write to request further that your honorable Board recommend to the Board of Aldermen the establishment of the grade of Messenger in my Bureau, at $1,200 per annum, the grade heretofore of my Messenger being established at the sum of $1,000. In making this second request, I take the liberty of again calling the attention of your honorable Board to the character of my present Messenger, Mr. Owen A. Keegan, to the services he performs in my Bureau, and to the general propriety of my request for an increase of salary for him.

Mr. Keegan is a veteran of the Civil War, and has been attached to this Bureau for over eight years, rising from the position of Storehouse Custodian to Messenger. His duties are only in part the duties of a Messenger. He has become a General Clerk in the office, and renders valuable assistance, and assumes more or less responsibility. Personally he is most painstaking and faithful in his work, and has become so familiar with his duties, and with the general duties performed in the office, that he is quite indispensable. He collects during the year from savings institutions and from persons into whose possession come estates of deceased persons a large sum of money. He has also become quite familiar with the practice of the Surrogates' Court. He is called, upon frequently to attend the calendars of not only the Surrogates' Court but the Municipal Courts of the City.

I therefore cannot too urgently ask you to recommend to the Board of Aldermen the creation of the grade of Messenger at the sum of $1,200.

Very respectfully,

WILLIAM M. HOES, Public Administrator, County of New York.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In relation to a communication from the Public Administrator, New York County, dated September 18, 1909, requesting the establishment of the grade of the position of Messenger with salary at the rate of $1,200 per annum, which was referred to a Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, for consideration, we would report as follows:

The Messenger for whom the establishment of the grade is requested, Owen A. Keegan, is a veteran of the Civil War and has been connected with the office for eight years. His present salary is $1,000 a year. The Public Administrator states that his duties are only in part the duties of a Messenger, as he renders valuable service as a Clerk. He is faithful in his work and in addition to his other duties he is often called upon to answer calendars not only in the Surrogates' Court, but in the various Municipal Courts throughout New York County.

In view of the facts as herein stated, we would recommend the approval of the request of the Public Administrator in accordance with the resolution appended hereto.

Respectfully,

H. A. METZ, Comptroller;
P. F. McGOWAN, President, Board of Aldermen;
Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, in accordance with the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment of the grade of position of Messenger in the office of the Public Administrator, New York County, in addition to those already existing therein, with salary at the rate of twelve hundred dollars ($1,200) per annum, for one (1) incumbent.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following preliminary report of the Select Committee, consisting of the Comptroller and President of the Board of Aldermen, recommending the establishment of the position of Supervising Apothecary in the Department of Public Charities, with salary at the rate of $1,500 per annum, for one incumbent.

(On September 24, 1909, the request of the Commissioner of Public Charities for the establishment of positions and grades of positions in conjunction with the Departmental Estimate for the year 1909, which included the above position, was referred to said Select Committee.)

DEPARTMENT OF FINANCE, CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of the communication of the Commissioner of the Department of Public Charities, under date of September 20, 1909, relative to the establishment of additional positions and grades of positions in the said Department, which was presented at a meeting of the Board of Estimate and Apportionment held September 24, 1909, and referred by you to a Select Committee consisting of the Comptroller and the President of the Board of Aldermen for consideration, we would report as follows:

Among these, the Commissioner of the Department of Public Charities requests the establishment of the position of Supervising Apothecary in order that a more careful supervision and inspection may be had of the drug stores connected with the several institutions of the Department, and it is his opinion that such supervision and inspection demands the services of a Supervising Apothecary.

We therefore recommend the approval of the said request as to the establishment of the position of Supervising Apothecary at a salary of $1,500 per annum.

Respectfully,

H. A. METZ, Comptroller;
P. F. McGOWAN, President, Board of Aldermen;
Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, in accordance with the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment of the position of Supervising Apothecary in the Department of Public Charities, with salary at the rate of fifteen hundred dollars ($1,500) per annum for one (1) incumbent.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communications from the Commissioner of Parks, Boroughs of Manhattan and Richmond, requesting the transfers of $7,000 and of $1,017.61, within appropriation made to said Department, for the year 1909, together with reports recommending a modification of the schedules of Salaries and Salaries and Wages accompanying the Budget for the year 1909, for the Department of Parks, Boroughs of Manhattan and Richmond, involving a transfer of $1,017.61, but no additional appropriation:

DEPARTMENT OF PARKS, MANHATTAN AND RICHMOND,
THE ARSENAL, CENTRAL PARK,
October 14, 1909.

To the Board of Estimate and Apportionment, The City of New York:

DEAR SIRS—Application is hereby made to your Honorable Board for the transfer of $7,000 from the appropriation made to the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1909, entitled Maintenance of Parks and Boulevards (No. 747), Laborers, to appropriation made to this Department entitled Maintenance of Parks and Boulevards (No. 747), Drivers, the amount of the appropriation for the latter account being insufficient.

Respectfully,

HENRY SMITH, Commissioner.

DEPARTMENT OF PARKS, MANHATTAN AND RICHMOND,
THE ARSENAL, CENTRAL PARK,
October 14, 1909.

To the Board of Estimate and Apportionment, The City of New York:

DEAR SIRS—Application is hereby made to your Honorable Board for the transfer of $1,017.61 from the appropriation made to the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1909, entitled General Maintenance (No. 746), Carpenters, to appropriation made to this Department entitled Maintenance of Parks and Boulevards (No. 747), Gardeners, 4 at $100 monthly (first account), the amount of the appropriation for the latter account being insufficient.

Respectfully,

HENRY SMITH, Commissioner.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 25, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Commissioner of Parks, Boroughs of Manhattan and Richmond, requesting a modification of a Budget schedule resulting in a transfer of $7,000 within the appropriation made for that Department for the year 1909, entitled No. 747, Maintenance of Parks and Boulevards, Salaries and Wages, which was referred to me for consideration, I would submit the following report:

The request is made by the Commissioner for the reason that there is insufficient money in the fund to pay the Drivers now at work for the balance of the year, while he has an amount in excess of the requirements for Laborers. In view of this fact and that the modification entails no additional cost, I recommend favorable consideration of the resolution hereunto appended.

Respectfully,

H. A. METZ, Comptroller.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—In the matter of a communication from the Commissioner of Parks, Boroughs of Manhattan and Richmond, under date of October 14, 1909, requesting a transfer within the appropriations made for that Department for the year 1909, said transfer also involving the modification of the Budget salary schedules, which has been referred to me for consideration, I would submit the following report:

The Commissioner desires to transfer from the appropriation made for the year 1909 entitled No. 746, General Maintenance, in the line item "Carpenters," the sum of $1,017.61, there being a balance in excess of the amount required therein, to the appropriation made for the same year entitled No. 747, Maintenance of Parks and Boulevards, line item "Gardeners," in which the balance is insufficient to pay the wages of the men employed for the balance of the year. In view of these facts as herein stated, I recommend favorable consideration upon the resolutions hereunto appended.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the modification and revision of the schedules supporting the appropriations made in the Budget for the year 1909, for the Department of Parks, Boroughs of Manhattan and Richmond, as hereinafter indicated:

General Maintenance—

746. Salaries and Wages, Mechanical Force:

Foreman Carpenter, at $150 monthly	$1,800 00	
Foreman Painter, at $150 monthly	1,800 00	
Foreman of Mechanics, at $150 monthly	1,800 00	
Foreman Mason, at $150 monthly	1,800 00	
Steam Engineers, not to exceed $4.50 per day each	6,570 00	
Steam Fitter, not to exceed $5 per day each	1,540 00	
Pipe Fitter, not to exceed $5 per day each	1,540 00	
Machinist, not to exceed $4.50 per day each	1,386 00	
Housesmiths, not to exceed $4.80 per day each	4,435 20	
Blacksmiths, not to exceed $4 per day each	3,696 00	
Blacksmith's Helpers, not to exceed $3 per day each	5,544 00	
Machinist's Helpers, not to exceed $2.50 per day each	1,475 00	
Rigger, not to exceed $3.50 per day each	1,078 00	
Carpenters, not to exceed $5 per day each	34,169 89	
Wheelwrights, not to exceed $3.50 per day each	3,234 00	
Plumbers, not to exceed $5 per day each	6,445 00	
Tinsmiths, not to exceed $4.50 per day each	2,533 50	
Plumber's Helper, not to exceed $3.25 per day each	1,001 00	
Plumber's Apprentice, not to exceed $2.75 der day each	1,694 00	
Bricklayers, not to exceed $5.60 per day each	3,152 80	
Masons, not to exceed $5 per day each	4,222 50	
Stone Cutter, not to exceed $5 per day each	1,407 50	
Paver, not to exceed $5 per day	1,407 50	
Harnessmakers, not to exceed $4 per day each	2,464 00	
Stokers, not to exceed $3 per day each	8,316 00	
Painters, not to exceed $4 per day each	18,016 00	
Painters (Decorators), not to exceed $4.50 per day each	6,333 75	
		$128,861 64

Maintenance of Parks and Boulevards—

747. Salaries and Wages:

General Foremen, 2 at $125 monthly	$3,000 00	
General Foreman of Stables, at $150 monthly	1,800 00	
Foreman Gardener, at $150 monthly	1,800 00	
Foreman, at $125 monthly	1,500 00	
Foremen, 27 at $100 monthly	32,400 00	
Arboriculturist, at $125 monthly	1,500 00	
Arboriculturist, at $100 monthly	1,200 00	
Gardener, at $100 monthly	5,817 61	
Gardeners, 41 at $75 monthly	36,900 00	
Drivers	9,600 00	
Attendant, at $85 monthly	1,020 00	
Entomologist, at $150 monthly	1,800 00	
Foremen Gardeners, 2 at $100 monthly	2,400 00	
Laborers	243,973 75	
Drivers	26,462 50	
Drivers	49,522 50	
Stablemen	11,862 50	
Climbers and Pruners	38,325 00	
		$470,883 86

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the sum of one thousand and seventeen dollars and sixty-one cents ($1,017.61), be and the same is hereby transferred from the appropriation made for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1909, entitled No. 746, General Maintenance, Salaries and Wages, Mechanical Force, the same being in excess of the amount required for the purposes thereof, to the appropriation made for the same Department and for the year 1909, entitled No. 747, Maintenance, Parks and Boulevards, Salaries and Wages, the amount of said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communications from the Sheriff of Kings County requesting, and report recommending, a modification of the schedules of Salaries and Salaries and Wages accompanying the Budget for the year 1909 for the office of the Sheriff of Kings County, involving a transfer of $2,350, but no additional appropriation:

OFFICE OF THE SHERIFF OF KINGS COUNTY,
COURT HOUSE, BOROUGH OF BROOKLYN,
September 28, 1909.

To the Board of Estimate and Apportionment, New York City:

GENTLEMEN—I respectfully ask that your Honorable Body make the following transfers, which are necessary for the administration of this office and the payment of accrued liabilities:

From account No. 1595, known as Salaries, Sheriff's Office, Kings County, the sum of $500 to be transferred to account No. 1600, known as Contingencies, Sheriff's Office, Kings County; also from account No. 1596, known as Salaries, County Jail, the sum of $1,600 to be transferred to account No. 1600, known as Contingencies.

The above transfers will amend the Budget schedule to read as follows:

1595. Salaries, Sheriff's Office—

Sheriff	$15,000 00	
Under Sheriff	6,000 00	
Chief Clerk	2,500 00	
Counsel	5,000 00	
Deputy Sheriffs, 8 at $2,200	17,600 00	
Assistant Clerk	2,000 00	
Equity Clerk	2,000 00	
Assistant Equity Clerk	1,800 00	
Secretary	1,500 00	
Assistant Deputy Sheriffs, 8 at $1,000	8,000 00	
Confidential Stenographer	500 00	
Telephone Operator	750 00	
		$62,650 00

1596. Salaries, County Jail—

Warden of Jail	$3,000 00	
Deputy Warden of Jail	2,000 00	
Bookkeeper	1,500 00	
Keepers, 6 at $1,200	7,200 00	
Van Drivers, 5 at $1,000	5,000 00	
Matrons, 2 at $1,000	2,000 00	
Cleaners, 1 at	750 00	
Cooks	.....	
Laundress	.....	
		$21,450 00

1600. Contingencies $4,600 00

Yours respectfully,

ALFRED T. HOBLEY, Sheriff, Kings County.

OFFICE OF THE SHERIFF OF KINGS COUNTY,
COURT HOUSE, BOROUGH OF BROOKLYN,
October 25, 1909.

Hon. HERMAN A. METZ, *Comptroller:*

DEAR SIR—I desire to amend my request for transfers of the accounts supporting the salary schedule in the Budget for the year 1909 as follows: Transfer the amount $2,350 from Salaries, County Jail; $2,100 of this amount I desire to have transferred to the account entitled Contingencies and the balance, $250, to Salaries, Sheriff's Office.

Yours truly,

ALFRED T. HOBLEY, Sheriff of Kings County.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
October 28, 1909.

The Honorable Board of Estimate and Apportionment:

GENTLEMEN—The Sheriff of Kings County, under date of September 28, 1909, presented a request for transfers within the appropriations made for his office for the year 1909, and on October 25 forwarded to the Comptroller an amendment to his original request. Said requests involve modifications in the Budget schedules supporting certain salary appropriations of said office. This matter having been referred to me for consideration, I would report as follows:

The Sheriff in his amended request asks for the transfer of $2,350 from account entitled No. 1596, Salaries, County Jail, to the following named accounts: No. 1595, Salaries, Sheriff's Office, $250, and No. 1600, Contingencies, $2,100. As a reason therefor the Sheriff states that there is a deficiency in the account Salaries, Sheriff's Office, and also in the Contingencies account, certain contingent liabilities having accrued in excess of the available allowance.

From memoranda furnished by the Sheriff's representative it appears that while a surplus now exists in the account entitled No. 1596, Salaries, County Jail, the present status of the account entitled No. 1600, Contingencies, is as follows:

Budget appropriation for 1909	$2,500 00	
Expended to date	1,221 52	
Unexpended balance		$1,278 48
Outstanding Bills and Estimated Expenditures—		
Printing briefs	$28 60	
Taxicab hire	150 00	
Transportation of prisoners	260 00	
Sundry supplies—ice, water, medicine	300 00	
Carfare of Deputies and Assistants	2,600 00	
		3,338 60
Estimated deficit		$2,060 12

The item for carfares covers the expenditures of sixteen Deputies and their Assistants in their official duties, and the item of taxicab hire was incurred during the investigation of racetrack gambling. The item of transportation of prisoners is repaid by the State, the Sheriff having now a check for $300 to be paid to the City Chamberlain.

In view of the facts as herein stated, I would recommend the approval of the request of the Sheriff, in accordance with the resolution appended hereto.

Respectfully,

H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the revision and modification of the salary schedules supporting the appropriations in the Budget for 1909 for the Sheriff of Kings County, as follows:

1595. Salaries, Sheriff's Office—

Sheriff	$15,000 00	
Under Sheriff	6,000 00	
Chief Clerk	2,500 00	
Counsel	5,000 00	
Deputy Sheriffs, 8 at $2,200 each	17,600 00	
Assistant Clerk	2,000 00	
Equity Clerk	2,000 00	
Assistant Equity Clerk	1,800 00	
Secretary	1,500 00	
Assistant Deputy Sheriffs, 8 at $1,000 each	8,000 00	
Confidential Stenographer, 6 months	500 00	
Telephone Operator	750 00	
		$62,650 00

1596. Salaries, County Jail—

Warden of Jail	$3,000 00	
Deputy Warden of Jail	2,000 00	
Bookkeeper	1,500 00	
Keepers, 6 at $1,200 each	7,200 00	
Van Drivers, 5 at $1,000 each	5,000 00	

Matrons, 2 at $1,000 each	2,000 00	
Cleaner	750 00	
		$21,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The following resolution was offered:

Resolved, That the sum of twenty-three hundred and fifty dollars ($2,350) be and the same is hereby transferred from the appropriation made to the office of the Sheriff of Kings County for the year 1909, entitled No. 1596, County Jail, Salaries, the same being in excess of the amount required for the purposes thereof, to the appropriation made to said office for the year 1909, entitled and as follows:

Sheriff's Office (No. 1595), Salaries	$250 00
County Jail (No. 1600), Contingencies	2,100 00
	$2,350 00

—the amounts of said appropriations being insufficient.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communication from the Commissioner of Parks, Boroughs of Manhattan and Richmond, requesting an issue of $40,000 Corporate Stock to provide means for repaving with asphalt blocks the Sixty-sixth street transverse road in Central Park, from Central Park West to Fifth avenue, Borough of Manhattan, together with report thereon recommending the granting of said request.

(On September 17, 1909, the request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for this appropriation was referred to the Comptroller.)

DEPARTMENT OF PARKS, MANHATTAN AND RICHMOND,
ARSENAL, CENTRAL PARK,
September 11, 1909.

To the Board of Estimate and Apportionment, The City of New York:

GENTLEMEN—Application is hereby made to your Honorable Board for an issue of Corporate Stock in the sum of forty thousand dollars ($40,000) for the repaving with asphalt blocks the Sixty-sixth street transverse road in Central Park, from Central Park West to Fifth avenue. This road has been paved with Belgian block pavement and is in need of rebuilding.

This street, in addition to being one of the important traffic roads, will be one of the main streets for vehicular traffic to and from the New Theatre on Central Park West, from the east side of the city, and for both reasons should be placed in proper condition.

Respectfully,
HENRY SMITH, Commissioner.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
September 22, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Hon. Henry Smith, Commissioner, Department of Parks, Boroughs of Manhattan and Richmond, in communication dated September 11, 1909, requests the Board of Estimate and Apportionment to authorize an issue of Corporate Stock in the sum of $40,000 for the repaving with asphalt blocks Sixty-sixth street transverse road in Central Park, from Central Park West to Fifth avenue.

The transverse road crossing Central Park, at Sixty-sixth street, is the only direct line of traffic communication crossing the park between Fifty-ninth and Eighty-sixth streets. This roadway was paved many years ago with granite, Belgian blocks. These blocks have once been turned and are now badly worn, rendering the street rough and generally in bad condition.

A large, new theatre has been built in Central Park West, on the block between Sixty-second and Sixty-third streets, and it is likely that this roadway will be largely used by patrons of the theatre living on the east side of the park.

The general traffic also crossing the park in this roadway is quite considerable.

In the interest of the traveling public the street should, in my opinion, be repaved at as early a date as possible.

The estimate of cost on which this $40,000 asked for is based is as follows:

5,500 linear feet of curb, at $1.20	$6,600 00	
5,500 square feet asphalt sidewalk restored, at 20 cents	1,100 00	
8,400 square yards pavement, at $3	25,200 00	
Providing proper drainage, reconstructing basins, laying tiles, etc. (estimated)	5,000 00	
	$37,900 00	
Engineering, inspection and contingencies (10 per cent.)	3,790 00	
	$41,690 00	

Forty thousand dollars, in round numbers, has been asked for, and I believe that this should prove amply sufficient.

The improvement being necessary, I would recommend that the Board of Estimate and Apportionment authorize the Comptroller, pursuant to section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, to issue Corporate Stock to the amount of $40,000 for repaving with asphalt blocks the Sixty-sixth street transverse road in Central Park, from Central Park West to Fifth avenue.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding forty thousand dollars ($40,000), to provide means for repaving with asphalt blocks the Sixty-sixth street transverse road in Central Park, from Central Park West to Fifth avenue, Borough of Manhattan, under the jurisdiction of the Commissioner of Parks, Boroughs of Manhattan and Richmond, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding forty thousand dollars ($40,000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communication from the Commissioner of Bridges, requesting authority, pursuant to resolution adopted December 18, 1908, to complete the regrading and repaving of Attorney street, near Delancey street, Borough of Manhattan, at a cost not to exceed $10,000, together with report recommending the granting of said request, said work to be done at a cost not to exceed $6,000.

(On October 22, 1909, the request of the Commissioner of Bridges, to proceed with the above work at a cost not to exceed $10,000, was referred to the Comptroller.)

DEPARTMENT OF BRIDGES—CITY OF NEW YORK,
NOS. 13 TO 21 PARK ROW,
NEW YORK, October 18, 1909.

To the Honorable the Board of Estimate and Apportionment of The City of New York:

GENTLEMEN—In connection with the construction of the subway station in the Borough of Manhattan of the Williamsburg Bridge, the grades of certain streets in the neighborhood were changed. The regrading and repaving of these streets were completed at the time of the construction of the station, with the exception of Attorney street, near Delancey street. This was omitted owing to the fact that the Fire Department was not able at that time to raise the engine house located on Attorney street, near Delancey street, to the new grade. This engine house is now being raised by the Fire Department, and the regrading and repaving of the street should be done at once.

This work will be chargeable to the fund entitled New East River Bridge Fund. Of the amount of Corporate Stock duly authorized by your Board for this fund there remains unexpended and unapplied a balance of $36,144.56.

Your Honorable Board adopted a resolution on December 18, 1908, requesting heads of the various Departments of The City of New York to submit for reapproval any proposed contract work for which payment is to be made by the issue of Corporate Stock.

As this regrading and repaving work is urgently needed, I respectfully request you to authorize me to proceed therewith, the cost of which will not exceed $10,000."

Yours truly,
J. W. STEVENSON, Commissioner.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 27, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Hon. James W. Stevenson, Commissioner, Department of Bridges, in communication dated October 18, 1909, requests the Board of Estimate and Apportionment to authorize him to complete the regrading and repaving of Attorney street, near Delancey street, at a cost not to exceed $10,000.

The work which the Bridge Department now desires to perform is the regrading and repaving which was included in the contract of Snare & Triest for the construction of the Manhattan subway station of the Williamsburg Bridge, but not performed by the contractors, a permanent deduction of $5,713.13 having been made from the contract price on account of the omission.

It would appear that $6,000 should cover the cost of the work for the omission of which the above deduction was made.

I would therefore recommend that the Board of Estimate and Apportionment suspend the application of the resolution of December 18, 1908, in so far as to permit the Department of Bridges to advertise and award a contract for regrading and repaving Attorney street, near Delancey street, in the Borough of Manhattan, at a cost not to exceed $6,000.

Respectfully,
H. A. METZ, Comptroller.

The following was offered:

Whereas, The Board of Estimate and Apportionment at a meeting held December 18, 1908, adopted a resolution requesting the heads of the various City Departments and offices not to advertise for contracts nor enter into any further obligations to be paid for by the issues of Corporate Stock without first submitting the same to the Board of Estimate and Apportionment for reapproval; therefore be it

Resolved, That the request of the Commissioner of Bridges for authority to advertise and award a contract for regrading and repaving Attorney street, near Delancey street, in the Borough of Manhattan, at a cost not to exceed six thousand dollars ($6,000), be and the same is hereby approved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following communication from the Commissioner of Public Charities requesting an issue of $30,000 Corporate Stock for needed improvements, including fixtures and furnishings at premises assigned to the Department on Eighty-sixth street, between Seventh and Fort Hamilton avenues, Brooklyn, as an emergency hospital, and for purchasing ambulances for the use of said hospital, together with report thereon recommending an issue of $30,000 Corporate Stock for the erection of an ambulance garage and for general alterations to the building, including fixtures and furnishings, on Eighty-sixth street, between Seventh and Fort Hamilton avenues, Brooklyn, assigned to the Department of Public Charities for use as an emergency hospital.

(On October 8, 1909, the request of the Commissioner of Public Charities for the above appropriation was referred to the Comptroller.)

DEPARTMENT OF PUBLIC CHARITIES,
FOOT OF EAST TWENTY-SIXTH STREET,
NEW YORK, September 29, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—The undersigned, Commissioner of Public Charities, respectfully applies for the issue of Corporate Stock to the amount of thirty thousand dollars ($30,000) for the purpose of making needed improvements, including fixtures and furnishings, at the premises assigned to this Department on Eighty-sixth street, between Seventh and Fort Hamilton avenues, in the Borough of Brooklyn, to be used as an emergency hospital for that part of the City, and for purchasing ambulances for the use of such hospital.

Respectfully yours,
ROBT. W. HEBBERD, Commissioner.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 27, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Hon. Robert W. Hebberd, Commissioner, Department of Public Charities, in communication dated September 29, 1909, asks the Board of Estimate and Apportionment to authorize the issue of Corporate Stock to the amount of $30,000 for the purpose of making needed improvements, including fixtures and furnishings, at the premises assigned to the Department of Public Charities on Eighty-sixth street, between Seventh and Fort Hamilton avenues, in the Borough of Brooklyn, to be

used as an emergency hospital for that part of the City, and for purchasing ambulances for the use of such hospital.

The building on the above described piece of property is the old Town Hall of New Utrecht, a brick-filled frame building, erected in 1876. The building is in such condition that it will have to be almost reconstructed in order to put it in satisfactory condition for hospital purposes, but, in my opinion, it will be more advantageous to use it as far as possible rather than to build an entirely new building at the present time.

The improvements planned by the Department include ambulance garage, with sleeping rooms for employees on the second story, so designed as to be available as part of a new hospital, if one is constructed at this location in the future.

The improvements to the old building include the remodeling of the interior and the repair and reconstruction of the exterior in such a way as to make a hospital accommodating ten patients.

The amount of $30,000 requested will have to be expended in an economical manner in order to complete the work as planned.

The improvement being a valuable and necessary one, I recommend that the Board of Estimate and Apportionment authorize the issue of Corporate Stock, pursuant to section 47 of the Greater New York Charter as amended, to the amount of $30,000 for the erection of an ambulance garage and for general alterations to the present building, including fixtures and furnishings, at the premises assigned to the Department of Public Charities on Eighty-sixth street, between Seventh and Fort Hamilton avenues, Borough of Brooklyn.

Respectfully,
H. A. METZ, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the erection of an ambulance garage and for general alterations to the building assigned to the Department of Public Charities on Eighty-sixth street, between Seventh and Fort Hamilton avenues, Borough of Brooklyn, including fixtures and furnishings therefor; and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding thirty thousand dollars ($30,000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Borough of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented communications as follows:

From the Commissioner of Public Charities, requesting authority, pursuant to resolution adopted December 18, 1908, to proceed with the construction of the Pathological Laboratory, City Hospital, Blackwells Island, at a cost not to exceed $50,000.

From a Committee of the People's Transit Conference, requesting the members of the Board to participate in a conference to be held on the evening of October 28, 1909, in Berkeley Lyceum, for the purpose of considering the present status of the case of the People vs. the Traction Trust.

From the Board of Education, requesting an issue of $289,990 Corporate Stock to provide means for the purchase of an addition to the Brooklyn Training School for Teachers and the payment of awards, etc., in the proceeding to acquire a school site on Twentieth and Twenty-first streets, between Eighth and Ninth avenues, Manhattan.

Which were referred to the Comptroller.

The Comptroller presented communications as follows:

From the President of the Borough of Brooklyn, requesting the establishment of the position of Chief Plan Examiner in the Bureau of Buildings with salary at the rate of $3,500 per annum.

From Defender Union No. 1, American Brotherhood of Blacksmiths, informing the Board that the wages of Blacksmiths in The City of New York has been fixed at $5 per day.

From the Consolidated Board of Business Agents of the Building Trades of New York and Vicinity, requesting the Board to grant a hearing to a committee of said Board relative to the prevailing rate of wages.

Which were referred to the Select Committee consisting of the Comptroller and the President, Board of Aldermen.

The Comptroller presented a communication from the City Club, urging the Board to reject the proposed form of contract for the removal of snow for the season of 1909-1910 based upon the so-called "area system."

Which was referred to the Comptroller and to the Chief Engineer of the Board.

The Comptroller presented a resolution of the Board of Aldermen, requesting the Board to acquire property commonly known as "Canary Island," extending northerly from One Hundred and Thirty-sixth street to One Hundred and Fortieth street, and easterly from Fifth avenue to the Harlem River, Borough of Manhattan, for use as a playground and athletic field.

Which was referred to the Committee on Small Parks for the Borough of Manhattan, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The Comptroller presented the following statements of the amounts to be included in the Budget for the year 1910 for rents, for the payment of principal of and interest on the City Debt; a statement showing the condition of the Fund for Street and Park Openings on September 30, 1909; also statement of deficiencies in the product of taxes as at December 31, 1908, to be provided for in the Budget for 1910, and communications from the State Comptroller showing the amounts to be included in the Budget for 1910 for the compensation of Justices, Clerks, Stenographers and other court expenses for the Counties of Kings, Queens and Richmond.

Which were ordered printed in the minutes.

DEPARTMENT OF FINANCE—CITY OF NEW YORK,
BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS,
August 20, 1909.

Mr. FRANK W. SMITH, *Chief Accountant and Bookkeeper, Department of Finance:*

SIR—For the purpose of making provision in the Budget for 1910 for the payment of rentals of property leased by the City, you will please cause to be prepared and forwarded to the Bureau of Municipal Investigation and Statistics, as soon as possible, a detailed schedule of the rentals to be provided for during 1910, on leases and agreements on record in this Department.

Respectfully yours,
J. H. McCOOEY, Deputy and Acting Comptroller

Memo.

In compliance with attached request of the Deputy Comptroller, I respectfully submit the following estimates of the amounts which should be appropriated for the payment of rents in the year 1910:

Rents, 1910.

Schedule—		
Manhattan	$715,676 71	
The Bronx	75,702 18	
Brooklyn	172,466 75	
Queens	77,609 00	
Richmond	12,253 00	
		$1,053,707 64
Estimated as necessary for new leases, etc.		100,000 00
Total estimate for rents, 1910		$1,153,707 64
New York County, Rents, 1910 (schedule)	$28,270 00	
Estimated additional	10,000 00	
		38,270 00
Richmond County, Rents, 1909 (schedule)	$25 00	
Estimated additional	225 00	
		250 00
Kings County, Rents, 1909 (schedule)	$2,200 00	
Estimated additional	800 00	
		3,000 00
Gross total		$1,195,227 64

August 28, 1909.

Respectfully submitted,
FREDERICK W. TAYLOR, Examiner.

To FRANK W. SMITH, Esq., Chief Accountant and Bookkeeper.

Folio.			
	Department of Finance.		
198	Barron Realty Company (top floor), Nos. 127 and 129 Franklin street, Manhattan	$3,000 00	
199	Nina Perry Paris, etc., No. 83 Chambers street, Manhattan (Paymaster)	9,000 00	
204	Mech's Bank, etc., No. 215 Montague street, Brooklyn (Assessments and Arrears)	7,678 75	
202	Felix Isman (Inc.), No. 280 Broadway, Manhattan (blanket lease)	134,510 00	
203	Felix Isman (Inc.), No. 280 Broadway, Manhattan (Room 191)	1,100 00	
205	Stuard Hirschman, Anable street, Long Island City (new building)	15,000 00	
N E.	Felix Isman, No. 280 Broadway (Rooms 269-271)	3,600 00	
			$173,888 75
	Commissioners of Accounts.		
2	Felix Isman (Inc.) (Rooms 109-113), No. 280 Broadway, Manhattan	$4,206 00	
202	Felix Isman (Inc.) (blanket lease), No. 280 Broadway, Manhattan	7,540 00	
			11,746 00
	City Magistrates' Courts.		
74	P. H. McCarren, No. 186 Bedford avenue, Brooklyn	$2,250 00	
75	Wyoming Lodge, No. 492, F. & A. M., Main street, Westchester, The Bronx	1,500 00	
77	James Kennedy, Fifth avenue and Twenty-third street, Brooklyn.	1,800 00	
78	Gilbert J. Sinnott, No. 133 New Jersey avenue, Brooklyn	2,200 00	
79	Rev. John McGuire, Nos. 115 and 117 Fifth street, First Ward, Queens (Sinking Fund resolution)	1,800 00	
85	Joseph D. Willis, Nos. 102 and 104 Court street, Brooklyn	1,800 00	
86	Estate of Charles A. Coe, Court and Butler streets, Brooklyn	1,644 00	
92	John Auer, No. 249 Manhattan avenue, Brooklyn	1,350 00	
			14,344 00
	Municipal District Courts.		
7	John D. Crimmins (Room 303), Madison avenue and Fifty-ninth street, Manhattan	$450 00	
14	Realty Associates, No. 609 Fulton street, Brooklyn	2,000 00	
72	Geo. J. Gould, etc., Twenty-third street and Eighth avenue, Manhattan	3,662 00	
73	Demilt Dispensary, Second avenue and Twenty-third street, Manhattan	1,700 00	
76	Jonas Scheuer, Attorney, etc., No. 14 Howard avenue, Brooklyn.	2,500 00	
80	Joseph D. Willis, Nos. 104 to 110 Court street, Brooklyn	4,900 00	
81	John D. Crimmins, Fifty-ninth street and Madison avenue, Manhattan	5,000 00	
82	J. W. Ehrich, etc., Assignees, Ninety-sixth street and Broadway, Manhattan	5,000 00	
83	Townsend Wandell, etc., Third avenue and Eighty-third street, Manhattan	5,500 00	
84	John D. Crimmins, Madison avenue and Fifty-ninth street, Manhattan	5,150 00	
87	Israel Lippmann, etc., Nos. 66 to 72 Lafayette street, Manhattan.	15,500 00	
88	Penn Fulton Company, Pennsylvania avenue and Fulton street, Brooklyn	4,700 00	
89	Estate of F. P. Burke, etc., Manhattan street, Amsterdam avenue and One Hundred and Twenty-sixth street, Manhattan	7,170 00	
91	George H. Parshall, Fifty-third street and Third avenue, Brooklyn.	1,800 00	
93	Rev. John McGuire, No. 115 Fifth street, Long Island City, Queens	1,000 00	
			66,032 00
	Court of Special Sessions.		
70	Brooklyn Athenæum, etc., Atlantic avenue and Clinton street, Brooklyn	$7,000 00	
71	Nathaniel W. Keane, Second avenue and First street, Manhattan	4,000 00	
90	Corn Exchange Bank, Jay street, St. George, Richmond (Clerk)	500 00	
			11,500 00
	Coroner's Offices.		
47	Aug. W. Rabe, Second street, near Lafayette avenue, New Brighton, Richmond	$600 00	
97	Lohden & Schults, No. 531 Tremont avenue, The Bronx	2,000 00	
			2,600 00
	Bellevue and Allied Hospitals.		
55	Morris J. Levi, etc., No. 113 West One Hundred and Thirty-sixth street, Manhattan	$1,200 00	
56	John A. Delaney, No. 212 East Twenty-sixth street, Manhattan	1,600 00	
57	Mrs. Francis M. Gibson, No. 144 East Thirty-seventh street, Manhattan	2,000 00	
58	Mrs. Margaret M. Gilday, Nos. 230 and 232 East Twenty-seventh street, Manhattan (Sinking Fund resolution), estimate	832 00	
95	Mary J. Archer, No. 115 West One Hundred and Thirty-sixth street, Manhattan	1,200 00	
			6,832 00

Department of Street Cleaning.

Folio.		
Book 3.		
440	Corporation of Trinity Church, No. 81 King street, Manhattan (If. R.)	$600 00
443	Jos. J. Gleason Company, Nos. 619 and 621 East One Hundred and Forty-third street, The Bronx (If. R.)	480 00
Book 4.		
3	Thomas Moore, No. 109 Barrow street, Manhattan	480 00
4	T. Connolly, Nos. 349 to 353 Rivington street, Manhattan	8,000 00
12	Hy. L. Byrnes, No. 444 West Fortieth street, Manhattan	300 00
13	Patrick Purcell, No. 250 East Fortieth street, Manhattan	600 00
108	Hubert G. Taylor, No. 304 Marcy avenue, Brooklyn	360 00
109	Anne Shevlin, Atlantic, near Utica avenue, Brooklyn	1,700 00
110	James R. Sparrow, No. 105 Greenpoint avenue, Brooklyn	400 00
111	Margaretha A. Schneider, No. 177 Concord street, Brooklyn	480 00
112	Joseph S. McGarry, No. 3906 Fourth avenue, Brooklyn	350 00
114	Thomas C. O'Brien, No. 61 Howard avenue, Brooklyn	300 00
115	Wm. F. Maher, No. 27 Bradhurst avenue, Manhattan	540 00
116	John Michels, No. 215 East Forty-seventh street, Manhattan	480 00
117	Anna Lutz, No. 404 East Twenty-first street, Manhattan	540 00
118	Theobald J. Dengler, etc., No. 590 Amsterdam avenue, Manhattan	1,500 00
119	Thomas H. Doyle, No. 180 Butler street, Brooklyn	300 00
120	Mary H. McCulloch, etc., No. 18 Burling slip, Manhattan	600 00
121	John Carlin, No. 160 Bedford avenue, Brooklyn	360 00
122	H. Oberscheimer, Ovington avenue, near Eighteenth avenue, Brooklyn	700 00
123	Village Realty Company, No. 627 Hudson street, Manhattan	780 00
124	Mrs. Wilhelmina Staats, No. 1692 Avenue A, Manhattan	550 00
125	Mrs. Sarah O'Brien, No. 483 East One Hundred and Forty-second street, The Bronx	480 00
126	Irving Bachrach, No. 1889 First avenue, Manhattan	600 00
127	Henry C. Fischer, Kent avenue and North Thirteenth street, Brooklyn	2,700 00
128	Diedrich Knabe, No. 217 Hester street, Manhattan	720 00
129	Chas. W. Abrams, No. 253 Driggs avenue, Brooklyn	360 00
130	Emil W. Klappert, No. 319 East Twenty-fourth street, Manhattan	360 00
131	John Kenney, No. 725 Sixth avenue, Brooklyn	480 00
132	Katherine I. Walsh, No. 334 Lexington avenue, Brooklyn	300 00
133	Peter J. Murphy, No. 784 Park place, Brooklyn	420 00
134	Geo. W. Plunkitt, Nos. 625 to 629 West One Hundred and Thirtieth street, Manhattan	6,000 00
135	Geo. W. Plunkitt, Nos. 612 to 616 West Fifty-second street, Manhattan	4,750 00
136	Geo. W. Plunkitt, Nos. 511 to 515 East One Hundred and Sixteenth street, Manhattan	2,600 00
137	Geo. W. Plunkitt, Nos. 505 to 509 East One Hundred and Sixteenth street, Manhattan	5,000 00
138	Geo. W. Plunkitt, No. 618 West Fifty-second street, Manhattan	2,000 00
139	Gustavus W. Rader, West Fifty-second street, 150 feet west of Eleventh avenue, Manhattan	1,400 00
140	Charles E. Ring, No. 231 Bowery, Manhattan	1,200 00
141	John Schween, No. 238 Broome street, Manhattan	900 00
142	Bridget Ryan, Administratrix, No. 421 Columbia street, Brooklyn	360 00
143	Wm. Sporborg, No. 502 West One Hundred and Fifty-sixth street, Manhattan	204 00
144	Lyman Denison, No. 19 Albany street, Manhattan	1,400 00
145	Rebecka Kortjohann, No. 316 East Thirty-third street, Manhattan	330 00
146	Ferrucio Vazzana, etc., No. 171 Tenth avenue, Manhattan	480 00
147	Keenan Hyman, No. 859 Myrtle avenue, Brooklyn	360 00
148	Andrew Hanrahan, No. 753 Bergen street, Brooklyn	300 00
149	Frank Le B. Trecalli, No. 239 Ninth street, Brooklyn	360 00
150	Edward Bolstein, No. 228 Graham avenue, Brooklyn	420 00
151	Philip Hurwitz, No. 185 Atlantic avenue, Brooklyn	360 00
152	Mrs. Marie Lamarsche, No. 350 East Eighty-fifth street, Manhattan	600 00
153	Frank Bollinger, No. 17 Snyder avenue, Brooklyn	300 00
154	John C. Jay, etc., Nos. 221 and 223 West Seventy-seventh street, Manhattan	7,000 00
155	Alice Jay, No. 219 West Seventy-seventh street, Manhattan	3,500 00
156	Samuel H. Cohn, No. 1011 Gates avenue, Brooklyn	300 00
157	John J. Devine, No. 608 Hart street, Brooklyn	300 00
158	John Egan, No. 175 Degraw street, Brooklyn	300 00
159	Ida Hurwitz, Liberty and Thatford avenues, Brooklyn	420 00
160	August Laupheimer, No. 532 Central avenue, Brooklyn	480 00
161	Joseph F. Morris, No. 162 Fourth avenue, Brooklyn	360 00
162	John J. Pyburn, No. 195 Clifton place, Brooklyn	300 00
163	Frank H. Hines, No. 232 West One Hundred and Twenty-fourth street, Manhattan	600 00
164	Guiseppe Labriola, No. 303 East One Hundred and Tenth street, Manhattan	360 00
165	Isaac Goldberg, No. 610 Water street, Manhattan	900 00
166	H. B. Claflin Company, Nos. 99 and 101 Sullivan street, Manhattan	3,250 00
167	Susan M. Stivers, No. 86 Fulton street, Brooklyn	300 00
168	Nicholas Betjeman, etc., No. 1072 First avenue, Manhattan	600 00
169	James S. Herrman, Nos. 408 and 410 West Fifteenth street, Manhattan	7,000 00
170	Wolf Finkelstein, No. 70 New Chambers street, Manhattan	900 00
171	D. F. McMahon, etc., Nos. 424 and 426 East Forty-eighth street, Manhattan	4,000 00
172	Mary J. Rooney, No. 1064 Washington avenue, The Bronx	300 00
173	John J. Pyburn, No. 332 Myrtle avenue, Brooklyn	420 00
176	Walter J. Salomon, No. 500 Fifth avenue, Manhattan	1,400 00
177	Ralph Townsend, No. 200 West One Hundred and First street, Manhattan	720 00
178	Mathilde Protzmann, Nos. 498 and 500 East Seventy-fourth street, Manhattan	660 00
179	Rosa H. W. Falk, No. 691 East One Hundred and Fifty-eighth street, The Bronx	540 00
180	Chas. H. Bohland, etc., Nos. 141 and 143 West End avenue, Manhattan	1,200 00
181	John Becker, No. 525 Fifth street, Manhattan	720 00
182	Eliz. M. Greve, as executrix, One Hundred and Seventy-fifth street and Park avenue, The Bronx	300 00
183	Jos. F. Beglan, No. 232 West Thirtieth street, Manhattan	360 00
184	Amelia Meyer, etc., Amsterdam avenue, south of One Hundred and Eighty-fourth street, Manhattan	3,000 00
185	Geo. J. Naegele, south side of One Hundred and Eighty-fourth street, east of Amsterdam avenue, Manhattan	500 00
186	John McCauley, Nos. 503 and 505 West Twenty-eighth street, Manhattan	540 00
187	Realty Associates, plot on Coney Island Creek, etc., Brooklyn	1,825 00
188	M. and J. Monday, north side of Forty-eighth street, east of Second avenue, Brooklyn	840 00
189	Louis Geissler, No. 439 Sixth street, Manhattan	600 00
190	Wm. F. Cunningham, Eightieth street, between Avenues A and B, Manhattan	4,000 00
191	Lillie Welker, No. 442 West Forty-fifth street, Manhattan	540 00
192	Charles McLoughlin, Sterling place, east of Rogers avenue, Brooklyn	200 00
193	Terrence Nugent, No. 166 South Fourth street, Brooklyn	420 00
194	Robert H. Taylor, Butler street, west of Fifth avenue, Brooklyn	550 00
195	John Dobbins, East One Hundred and Thirty-fifth street, east of Madison avenue, Manhattan	1,200 00
196	Isidor Sinkowitz, No. 601 East Sixteenth street, Manhattan	420 00
197	Agnes Hart, west side of Fourth avenue (Nos. 1172 and 1174 Fourth avenue), Brooklyn	1,800 00
208	Jacob Marx, No. 230 East One Hundred and Fourth street, Manhattan	540 00
209	Thomas F. Martin, No. 2924 West Seventeenth street, Brooklyn	420 00
210	Siebrand Niewenhous, One Hundred and Fifty-second street, east of Courtlandt avenue, The Bronx	4,500 00
211	Louis Lese, One Hundred and Fifty-third street, east of Courtlandt avenue, The Bronx	900 00
212	Walter V. Cranford, assignee, Butler street, between Fourth and Fifth avenues, Brooklyn	6,000 00
213	Frank D. Creamer, Jamaica avenue and Gillin place, Brooklyn	4,000 00
214	Edward S. Schaeffler, etc., Nos. 408 to 416 East Forty-eighth street, Manhattan	3,000 00
215	D. Conryn Moran, etc., No. 202 East Sixty-fifth street, Manhattan	480 00
216	Philip Collins, Nos. 42 to 46 Hamilton street, Manhattan	7,000 00
217	Fleischmann Realty Company, etc., One Hundred and Forty-ninth street and Bergen avenue, The Bronx	1,120 00
218	Frank D. Creamer, Sterling place and Nostrand avenue, Brooklyn	2,500 00
219	Alex'r Walker, etc., Lots Nos. 56 to 59, Block 1996, Twelfth Ward, Manhattan	1,800 00
220	Estate of W. C. Andrews, deceased, East One Hundred and Sixteenth street, east of Pleasant avenue, Manhattan	1,200 00
222	Harris Weinstein, Nos. 313 and 315 East One Hundred and Forty-sixth street, The Bronx	420 00
223	Tillie Fichel, Nos. 309 to 311 East One Hundred and Forty-sixth street, The Bronx	60 00
481	Park Row Realty Company, Nos. 13 to 21 Park row, Manhattan	11,606 56
510	Isaac Libschitz, etc., No. 54 Forsyth street, Manhattan	720 00
511	J. Henry Watjen, No. 87 Lewis avenue, Brooklyn	300 00
512	Jas. J. Kinsella, No. 536 Seventh avenue, Brooklyn	360 00
513	Simon Harburger, No. 2064 Atlantic avenue, Brooklyn	420 00
		157,415 56

Fire Department.

Book 3		
260	Oceanus Hook and Ladder Company, Boulevard, Rockaway Beach, Queens	$600 00
Book 4		
238	Elizabeth H. Haffner, Central avenue, Far Rockaway, Queens	150 00
239	Mrs. M. J. Doherty, Wythe avenue, near North Ninth street, Brooklyn	600 00
240	Edw. J. Fay, etc., No. 177 Avenue C, Manhattan	1,320 00
241	Clarenceville Athletic Club, Greenwood and Atlantic avenues, Jamaica, Queens	720 00
242	Henry Trowbridge, No. 231 Radde street, Long Island City, Queens	600 00
243	Theo. Young, No. 1048 Union avenue, The Bronx	1,000 00
244	Irving Place Association, Irving place and Broadway, Jamaica, Queens	420 00
245	John Reis, Lawrence avenue, near Second street, Brooklyn	780 00
246	Havemeyers & Elder, foot of North Eighth street, Brooklyn	1,000 00
247	Leonard Ruoff, etc., Rockaway, near Flatlands avenue, Brooklyn	700 00
248	Union Ferry Company, foot of Main street, Brooklyn	1,000 00
249	(Assignee) Jacob Ruppert, No. 692 Vernon avenue, Long Island City, Queens	650 00
250	Frank Baldwin, Boulevard, Rockaway Beach, Queens	600 00
252	Henning, Borheck & Heyser, Nos. 354 and 356 Flushing avenue, Queens	2,000 00
253	Columbia Fire Department, Willow street, Richmond Hill, Queens	900 00
254	Atlantic Engine Company 1, Grove street, Rockaway Beach, Queens	600 00
255	Marg't E. Baldwin, Washington avenue, Rockaway Beach, Queens	600 00
375	Enterprise Social Association, etc., No. 518 Fifth street, College Point, Queens	600 00
376	Adam Happel, First avenue and Ninety-third street, Manhattan	6,950 00
377	Archibald C. M. Stewart, Nos. 257 and 259 William street, Manhattan	1,500 00
		23,290 00

Department of Health.

11	P. J. Bernard etc., No. 372 and 374 Fulton street, Jamaica, Queens	$400 00
279	Henry J. Braker, Sixth avenue and Fifty-fifth street, Manhattan.	16,000 00
280	Cath. Braun, etc., Nos. 54 and 56 Water street, Stapleton, Richmond	1,500 00
281	Christian Schneider, No. 341 Pleasant avenue, Manhattan	900 00
282	Bernard Frank, Third avenue and St. Paul place, The Bronx	2,000 00
283	Edwin Packard, Nos. 38 and 40 Clinton street, Brooklyn	4,000 00
284	Robert Dun Douglas, etc., No. 116 East Forty-first street, Manhattan	3,000 00
285	Elizabeth Bernhard, Nos. 372 and 374 Fulton street, Jamaica, Queens	400 00
286	Elizabeth Bernhard, Nos. 372 and 374 Fulton street, Jamaica, Queens	1,400 00
287	Eagle Warehouse and Storage Company, Nos. 28 to 38 Fulton street, Brooklyn	600 00
288	Benj. F. Lee, etc., No. 963 Sixth avenue, Manhattan	1,800 00
289	Weil & Mayer, No. 277 Avenue C, Manhattan	2,000 00
290	Austin B. Fletcher, executor, No. 965 Sixth avenue, Manhattan	4,735 00
291	Norman G. Cooper, No. 368 Hawthorne street, Brooklyn	450 00
292	Dwight McDonald, No. 361 Jay street, Brooklyn	1,000 00
293	J. H. C. Johansmeyer, Nos. 1034 and 1036 East One Hundred and and Thirty-fourth street, The Bronx	1,200 00
294	P. J. Bernard, etc., Nos. 372 and 374 Fulton street, Jamaica, Queens	150 00
295	Fruit Auction Company, Franklin and Washington streets, Manhattan	531 00
516	Edward F. and Regina Koch, No. 330 Throop avenue, Brooklyn	1,200 00
517	Wm. Seguine, etc., Bay and Sands streets, Stapleton, Richmond.	1,500 00
	Total extant	$44,766 00
Book 3		
290	The Chemists' Club, No. 108 West Fifty-fifth street (probable renewal), Manhattan	400 00
		45,166 00

Law Department.

Book 3.		
318	Long Island City Savings Bank, No. 21 Jackson avenue, Long Island City	$600 00
Book 4.		
202	Felix Isman (Inc.), No. 280 Broadway (blanket lease), Manhattan	4,150 00
310	Island Realty Company, Twenty-third street and Fourth avenue, Manhattan	1,400 00
321	Island Realty Company, Twenty-third street and Fourth avenue, Manhattan	2,800 00
322	Wm. J. Belford, No. 61 Wyckoff street, Brooklyn	60 00
325	Temple Court Company, No. 119 Nassau street, Manhattan	3,700 00
336	Island Realty Company, Twenty-third street and Fourth avenue, Manhattan	1,800 00
		14,510 00

Police Department.

Folio.

Book 3.

341	F. E. Schultze, Vernon avenue, east of Flatbush avenue, Brooklyn.	$240 00	
343	Philip F. Schmidt, etc., No. 508 East One Hundred and Twenty-second street, Manhattan	600 00	
356	Katharina Bauer, West Eighth street, Coney Island, Brooklyn	300 00	
361	Jas. A. Varian, Fulton street and Becker avenue, Wakefield, The Bronx	900 00	

Book 4.

338	Robert Hoe & Co., Nos. 153 and 155 East Thirty-second street, Manhattan	7,333 33	
339	Wm. Schweikert, Nos. 118 to 126 Waverly avenue, Brooklyn	2,300 00	
341	Minerva J. Nielsen, Lawrence avenue and Ocean boulevard, Brooklyn	1,200 00	
342	Francis L. Glover, No. 98 John street, etc., Manhattan	6,000 00	
343	Sarah M. Donnelly, Second avenue and First street, College Point, Queens	900 00	
344	Mary E. Corry, executrix, Nos. 17 and 19 Beach street, Stapleton, Richmond	1,500 00	
345	Wm. Wheeler, Richmond terrace, West New Brighton, Richmond.	1,500 00	
346	Henry M. Thomson, etc., Sherman avenue and Elm street, Queens	1,200 00	
347	Leonard Ruoff, Broadway, Ozone Park, Queens	1,200 00	
348	Charles Kaye, No. 36 East Ninth street, Manhattan	2,000 00	
349	Payne Estate, etc., One Hundred and Thirty-eighth street and Alexander avenue, The Bronx	4,500 00	
350	Cath. Mullaly, Avenue G and East Ninety-second street, Brooklyn.	360 00	
352	Annie F. Foley, No. 106 East One Hundred and Twenty-sixth street, Manhattan	601 92	
353	Isaac Schreiber, No. 17 Allen street, Manhattan	900 00	
354	Mary E. Hines, Broadway and Moot avenue, F. R., Queens	1,500 00	
355	Martin L. Fisher, East Broadway, Tottenville, Richmond	480 00	
356	Chas. Connor, assignee, No. 120 West Twentieth street, Manhattan	6,000 00	
359	E. A. Goodridge, No. 42 North Prince street, Flushing, Queens	1,500 00	
360	Chas. J. Campbell, etc., No. 17 Leonard street, Manhattan	2,100 00	
361	Ella S. Nix, etc., No. 269 State street, Brooklyn	5,200 00	
362	Mrs. A. Reitz,, No. 17 West Eighteenth street, Whitestone, Queens	1,200 00	
363	Chas. Kaye, No. 36 East Ninth street, Manhattan	1,400 00	
364	W. M. Van Anden, No. 5 Vine street, Brooklyn	650 00	
365	Jas. R. Sparrow, No. 191 Broadway, Brooklyn	2,400 00	
366	Estate Chas. A. Coe, No. 1 East Twenty-seventh street, Manhattan.	4,500 00	
367	Wm. Anderson, No. 104 West Fifty-second street, Manhattan	1,400 00	
368	Josephine M. Carney, No. 151 Crosby street, Manhattan	2,160 00	
369	Robert Reid Company, No. 127 West One Hundred and Twenty-fifth street, Manhattan	1,400 00	
370	G. A. Meyer, executor, New Dorp lane and Eighth street, Richmond	1,350 00	
371	Wm. Henderson, Williamsbridge road (P. O. B.), The Bronx	3,500 00	
372	Samuel Brill, etc., Nos. 168 and 170 Fulton street, Manhattan	9,200 00	
373	Wm. Schweikert, Nos. 118 to 126 Waverley avenue, Brooklyn	2,200 00	
374	Lillie McGovern, No. 245 West Sixtieth street, Manhattan	1,200 00	
386	John Irving, No. 417 Richmond terrace, New Brighton, Richmond.	480 00	
			83,355 25

President of the Borough of The Bronx.

Book 3.

403	Abraham Piser, Westchester and Green avenues, The Bronx	$100 00	
404-5	Marcella M. Oakes, White Plains avenue, opposite Logan street, The Bronx	840 00	

Book 4.

392	Adah M. McDermott, Tremont avenue, west side Boulevard, The Bronx	400 00	
398	Martin Walter, Nos. 765 and 767 Tremont avenue, The Bronx	1,200 00	
401	Mott Haven Company, One Hundred and Forty-third street and College avenue, The Bronx	1,750 00	
404	Eva W. Bailey, Prospect place, between Anthony avenue and Crane place, The Bronx	900 00	
408	O. and A. Bartelstone, No. 4179 Third avenue, The Bronx	1,200 00	
409	Mott Haven Company, College avenue and One Hundred and Forty-fourth street, The Bronx	1,700 00	
415	Edward P. Wood, Macombs Dam road and Jerome avenue, The Bronx	360 00	
426	Katharina Hauck, Grand Boulevard and Concourse, near One Hundred and Eighty-fourth street	360 00	
428	Geo. E. Herold, Castle Hill and Ellis avenues, The Bronx	900 00	
430	Martin Walter, No. 765 Tremont avenue, The Bronx	420 00	
441	Conrad Bill, No. 1161 East One Hundred and Sixty-ninth street, The Bronx	420 00	
			10,550 00

President of the Borough of Brooklyn.

Book 3

410	Margaret Zaccaro, No. 42 Tompkins place, Brooklyn	$360 00	
411	Kings County Jefferson Association, Nos. 4 and 5 Court square, Brooklyn	420 00	
425	Christian Krabbe, No. 757 Myrtle avenue, Brooklyn	480 00	

Book 4

1	C. A. Jacob, No. 874 Willoughby avenue, Brooklyn	1,500 00	
388	New York Dock Company, foot of Conover street, Brooklyn	400 00	
389	New York Dock Company, foot of Dock street, Brooklyn	500 00	
390	Ireland Real Estate Company, foot of North First street, Brooklyn	800 00	
394	Mechanics' Bank, Nos. 209 to 215 Montague street, Brooklyn	4,623 00	
395	Mechanics' Bank, Nos. 209 to 215 Montague street, Brooklyn	1,010 00	
396	Mechanics' Bank, Nos. 209 to 215 Montague street, Brooklyn	8,683 00	
400	Geo. W. Hanley, Sixty-seventh street, between Seventeenth and Eighteenth avenues, Brooklyn	900 00	
413	Brooklyn Improvement Company, north side of Seventh street basin, west of Second avenue, Brooklyn	1,440 00	
414	Brooklyn Improvement Company, north side of Seventh street basin, west of Second avenue, Brooklyn	960 00	
416	Wm. O. Platt, Agent, Eighth street, west side of Union avenue, Brooklyn	750 00	
440	Mechanics' Bank, No. 209 Montague street, Brooklyn	650 00	
443	Clarence Kenyon, foot of Fifty-eighth street, Brooklyn	500 00	
445	E. H. Dougherty & Co., foot of Degraw street, Brooklyn	1,000 00	
448	Mechanics' Bank, Court and Montague streets, Brooklyn	740 00	
			25,716 00

President of the Borough of Manhattan.

391	Ellen M. Hennessy, etc., Eighteenth street and Fourth avenue, Manhattan	$16,500 00	
397	Harry Wittenberg, No. 186 Mulberry street, Manhattan	360 00	
405	Jno. A. Weeks, etc., Nos. 153 and 155 Lafayette street, Manhattan	1,800 00	
406	Mount Morris Bank, One Hundred and Twenty-fifth street and Park avenue, Manhattan	444 00	
407	Patrick H. Roche, No. 95 Market street, Manhattan	720 00	
417	Edward Fox, One Hundred and Twenty-third street, west of Morningside avenue, Manhattan	9,000 00	
418	Rachel Lederer, Nos. 529 to 533 East Eightieth street, Manhattan.	900 00	
483	Park Row Realty Company, Nos. 13 to 21 Park row, Manhattan	32,941 26	
			62,665 26

President of the Borough of Queens.

Folio.

Book 3

414	Wm. Richensteen, No. 51 Jackson avenue, Long Island City, Queens	$600 00	
419	Mary Smithwick, executrix, Thompson avenue, west of Broadway, Elmhurst	300 00	

Book 4

174	Mary L. Dumler, No. 48 Jackson avenue, Long Island City	600 00	
175	Mary L. Dumler, No. 46 Jackson avenue, Long Island City	180 00	
387	Geo. E. Payne, land in Blocks 36 and 37, Long Island City	1,500 00	
393	James D. Trask, Nos. 250 and 252 Jackson avenue, Long Island City	3,400 00	
399	Wm. Richensteen, No. 51 Jackson avenue, Long Island City	800 00	
402	Chas. Haffner, Greenwood avenue (F. R.)	400 00	
403	Barbara Lorch, Ralph street, etc	80 00	
410	Aug. Bellow, North Division avenue (R. B.)	400 00	
419	Margaret Foley, Vanderbilt avenue, Jamaica	390 00	
420	Daniel Shea, No. 133 Seventh street, Long Island City	300 00	
427	J. F. Galvin, assignee, Fourteenth street, west of Boulevard, Long Island City	700 00	
429	Hy. J. Glasser, Myrtle avenue, east of Harmon avenue, Evergreen.	450 00	
432	Mrs. Schenck, Tower No. 3, Pumping Station, etc	75 00	
433	Arthur Jesser, Tower No. 7, Hopedale, etc	100 00	
434	Jas. C. Weeks, etc., Tower No. 8, Lawrence and Queens roads	100 00	
435	Thos. Miller Estate, Tower No. 9, southeast of Cedar Grove	75 00	
436	St. Albans Heights Realty Company, Tower No. 11, St. Albans, Queens	75 00	
437	Van Siclen Estate, Tower No. 12, Van Siclen avenue, Queens	100 00	
438	Lear Jager, Tower No. 13, on New York avenue, etc., Queens	50 00	
442	Degnon Realty, etc., Company, College Point (Twentieth street), Queens	200 00	
447	Mary M. Biehle, Plaza, in Fourth Ward	300 00	
			11,175 00

President of the Borough of Richmond.

Book 3

495	Estate of M. J. Harrison, Bodine street, West New Brighton	$250 00	

Book 4

411	Thomas Carlin, Ann street, West New Brighton	144 00	
412	August W. Rabe, north side of Third street (Lot No. 8, Block 6, Ward 1)	180 00	
421	Owen Gelshenan, west side of Barker street	50 00	
422	W. Butler Duncan, south side of Hannah street	100 00	
423	Lizzie Higgins, Amboy avenue, Tottenville	50 00	
424	Katharine Winters, Lots Nos. 153, 154, 172 and 173, Plot 7, Ward 2	100 00	
425	Mrs. Mary Kreis, Richmond road, Concord	144 00	
431	Joseph Gillies, etc., Nelson avenue, Giffords	40 00	
439	Christian N. Kessner, Amboy road, west of Huguenot D. R. Church	60 00	
446	Chas. E. Griffith, Agent, Richmond terrace and St. Nicholas avenue (Third Ward)	180 00	
			1,298 00

Tenement House Department.

500	Island Realty Company, No. 44 East Twenty-third street, Manhattan	$10,000 00	
501	Island Realty Company, Twenty-third street and Fourth avenue, Manhattan	500 00	
502	Island Realty Company Twenty-third street and Fourth avenue, Manhattan	5,000 00	
503	Clinton R. James, Attorney, Nos. 38 to 44 Court street, Brooklyn.	8,311 00	
504	Mathias Haffen, Nos. 2804 to 2808 Third avenue, The Bronx	3,254 18	
505	David G. Legget, No. 186 Remsen street, Brooklyn	3,425 00	
			30,500 18

Department of Water Supply, Gas and Electricity.

Book 3

555	Thomas B. Watson, etc., Main street, The Bronx	$420 00	
557	Louis Becker, No. 231 East Seventy-ninth street, Manhattan	360 00	

Book 4

484	Park Row Realty Company, Nos. 13 to 21 Park row, Manhattan	37,836 36	
540	Ferdinand C. Bamman, Westchester and St. Peters avenues, The Bronx	600 00	
543	Payne Estate, etc., Washington avenue and One Hundred and Sixty-sixth street, The Bronx	600 00	
544	Frank Tects, etc., No. 1784 Shore road, Brooklyn	420 00	
546	Caroline Schumacker, No. 437 West Thirty-seventh street, Manhattan	900 00	
547	Michael Shannon, No. 139 Court street, Brooklyn	300 00	
548	W. J. Winghart, Webster avenue and Two Hundred and First street, The Bronx	1,200 00	
549	Martin F. Ficke, Lee Avenue and Rodney street, Brooklyn	600 00	
550	Carrie B. Colby, assignee, No. 506 West One Hundred and Eighty-fifth street, Manhattan	600 00	
551	John Musans, New Utrecht avenue, near Sixtieth street, Brooklyn	240 00	
552	C. W. Montgomery, No. 271 East One Hundred and Thirty-fifth street, The Bronx	540 00	
553	Geo. Lahrmann, No. 49 Morris Park avenue, The Bronx	300 00	
555	Catherine M. Bremer, Madison and Boerum streets, Flushing, Queens	360 00	
556	John Kane, No. 31 Perry street, Manhattan	900 00	
557	Hy C. Johnson, Jr., agent, Willow street, near Franklin, Long Island City, Queens	600 00	
558	Jas. E. Mulligan, No. 407 Richmond terrace, New Brighton, Richmond	400 00	
559	New York State Realty and Trust Company, No. 3 West End avenue, Manhattan	480 00	
560	Mathias Haffen, No. 2808 Third avenue, The Bronx	480 00	
561	James Connolly, etc., No. 200 East Seventy-ninth street, Manhattan	600 00	
562	Van Norden Trust Company, Bowery and Grand street, Manhattan	200 00	
563	Van Norden Trust Company, Bowery and Grand street, Manhattan	600 00	
564	Van Norden Trust Company, Bowery and Grand street, Manhattan	216 00	
565	Edwin Bedell, etc., No. 4113 Third avenue, The Bronx	425 00	
566	James Keenan, No. 6 North Fairview avenue, Rockaway Beach, Queens	300 00	
567	Geo. F. Halsted, etc., No. 217 Sixth avenue, Brooklyn	500 00	
568	C. W. Montgomery, Nos. 271 and 273 East One Hundred and Thirty-fifth street, The Bronx	120 00	
			51,097 36

Municipal Civil Service Commission.

8	Barclay Realty Company, etc., No. 299 Broadway, Manhattan	$16,570 00	
25	Israel Lippmann, etc., Nos. 66 to 72 Lafayette street, Manhattan.	15,500 00	
			32,070 00

Department of Bridges.

Folio.			
Book 3			
25	Pure Oil Company, No. 152 Third street, Brooklyn (if renewed)..	$420 00	
33	Borden Realty Company, Borden avenue and Dutch Kills Creek, Queens (if renewed).....	3,000 00	
34	Borden Realty Company, Borden avenue and Dutch Kills Creek, Queens (if renewed).....	3,000 00	
Book 4			
10	Henry Meyers, No. 63 West One Hundred and Thirty-fifth street, Manhattan	480 00	
450	Wm. Richenstein, No. 36 Jackson avenue, Long Island City.....	420 00	
451	New York Central Storage Company, Nos. 101 to 107 East One Hundred and Twenty-fifth street, Manhattan.....	420 00	
452	Chas. H. Meyer, No. 472 Water street, Manhattan.....	480 00	
453	Jas. R. Sparrow, No. 193 Broadway, Brooklyn.....	2,400 00	
454	Helen C. McDonough, Borden avenue and Dutch Kills Creek, Queens	1,500 00	
455	Terry & Tench Company, west side Avenue A, Bayonne, N. J....	3,000 00	
456	Bradley L. Eaton, etc., strip of land, The Bronx.....	21,500 00	
457	Manufacturers' National Bank, Broadway and Berry street, Brooklyn	1,660 00	
458	Martin Heilbert, No. 214 Ely avenue, Long Island City.....	264 00	
459	Booth Brothers, etc., strip between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, Madison avenue to Harlem River, Manhattan.....	11,000 00	
460	John A. Roebling's Sons' Company, Kinkaras, Burlington, N. J..	1 00	
461	L. E. Field, strip from Fishers Landing road to Hutchison River, The Bronx	600 00	
462	Townsend Wandell, vacant land on Hutchison River, The Bronx..	750 00	
463	Manufacturers' National Bank, No. 84 Broadway, Brooklyn.....	950 00	
482	Park Row Realty Company, Nos. 13 to 21 Park row, Manhattan..	13,688 98	
			65,533 98
	Board of Assessors.		
15	Central Syndicate Building Company, No. 320 Broadway, Manhattan.....		4,000 00
	Board of Building Examiners.		
17	Metropolitan Life Insurance Company, Twenty-third street and Madison avenue, Manhattan		1,600 00
	Examining Board of Plumbers.		
18	Church and Warren Company, No. 149 Church street, Manhattan.....		960 00
	Department of Taxes and Assessments.		
20	Emigrant Industrial Savings Bank, No. 51 Chambers street, Manhattan.....		3,435 00
	Commissioner of Licenses.		
21	Fred'k Southack, etc., No. 277 Broadway, Manhattan.....		3,218 00
	Board of Estimate and Apportionment.		
22	Fred'k Southack, etc., No. 277 Broadway, Manhattan.....		10,782 00
	Department of Correction.		
474	Kenneth M. Murchison, No. 148 East Twentieth street, Manhattan	$3,000 00	
475	John U. Brookman, No. 516 East Twentieth street, Manhattan....	1,200 00	
			4,200 00
	Department of Public Charities.		
28	Hirsch & Roth, No. 398 First avenue, Manhattan.....	$3,600 00	
29	Louis Stauch, Sea Breeze avenue, Coney Island, Brooklyn.....	3,000 00	
			6,600 00
	Board of City Record.		
480	Park Row Realty Company, Nos. 13 to 21 Park row, Manhattan..	$3,928 30	
N.E.	West & Jordan Company, Nos. 96 and 98 Reade street, Manhattan.	5,500 00	
			9,428 30
	Miscellaneous, Borough of Queens.		
23	Christopher Hackett, Jackson avenue and Fifth street, Long Island City.....		9,000 00
	Brooklyn Disciplinary Training School.		
265	Kings County Jefferson Association, Nos. 4 and 5 Court square, Brooklyn.....		480 00
	Hudson-Fulton Celebration Commission.		
24	Tribune Association, rooms in Tribune Building.....	$1,000 00	
59	Tribune Association, rooms in Tribune Building.....	365 00	
			1,365 00
	Department of Education.		
Book 3			
121	Charles Schaper, Nos. 120 and 122 Livingston street, Brooklyn....	2,500 00	
124	Cord Meyer Company, Broadway and Whitney avenue, Elmhurst, Queens	300 00	
127	Hamilton House, No. 15 Hamilton street, Manhattan.....	420 00	
138	Henry F. Newbury, Coney Island avenue and East Twelfth street, Brooklyn	180 00	
139	Albert A. Day, No. 138 Livingston street, Brooklyn.....	960 00	
162	Jennie V. Wilbur, plot adjoining Balzer Hall, Brooklyn.....	200 00	
Book 4			
31	Ephraim B. Levy, Morris Park avenue and Lincoln street, The Bronx	1,650 00	
32	New York City Baptist Mission Society, No. 162 Second avenue, Manhattan	360 00	
33	A. Rakovchick, etc., Rockaway avenue and Sumpter street, Brooklyn	450 00	
34	Thomas Koch, Grinnell Mansion, Corona, Queens.....	1,580 00	
35	Mrs. Frances Gold, No. 417 East Eighty-fifth street, Manhattan....	600 00	
36	Dry Dock Realty Company, Nos. 530 to 534 East Eightieth street, Manhattan	3,200 00	
37	Brooklyn Benevolent Society, south side of Amity street, Brooklyn	180 00	
38	Associate Alumnae, N. C., N. Y., No. 446 East Seventy-second street, Manhattan	360 00	
39	Long Island News Company, Main and Washington streets, Flushing, Queens	900 00	
41	Ridgewood Park R. Company, assignee, Ridgewood Park Hotel, Queens	2,000 00	
42	Hebrew Benevolent and O. A. Society, Third avenue and Seventy-seventh street, Manhattan.....	7,000 00	
43	Hy. C. Johnson, etc., crescent head of Temple street, Long Island City, Queens	1,000 00	
44	Archibald E. Isaacs, No. 288 East Broadway, Manhattan.....	900 00	
45	Hebrew Ed. Society of Brooklyn, Pitkin avenue and Watkins street, Brooklyn	1,200 00	
60	Mary E. Mullins, assignee, No. 137 Henry street, Manhattan.....	2,400 00	
61	Josephine J. Schnurmacher, One Hundred and Eighth street and First avenue, Manhattan.....	6,000 00	
62	Brooklyn Guild Association, No. 245 Concord street, Brooklyn.....	450 00	
63	Walter Ryan, No. 724 Myrtle avenue, Brooklyn.....	360 00	
64	Walter Ryan, Walworth street, south of Myrtle avenue, Brooklyn..	360 00	
65	Manfred Rockfeller, north side of Avenue S, west of East Thirteenth street, Brooklyn.....	500 00	
66	Joel Fowler, Jefferson avenue, south of Jamaica avenue, Queens...	400 00	
67	Educational Alliance, No. 197 East Broadway, Manhattan.....	2,750 00	
68	Margaret V. McNulty, Eighteenth avenue and Sixty-seventh street, Brooklyn	1,500 00	
69	Geo. R. Rodemann, Nos. 63 and 65 New York avenue, Brooklyn...	2,500 00	
53	Educational Alliance, No. 624 Fifth street, Manhattan.....	2,500 00	
224	German Evangelical Mission Church, Leonard and Stagg streets, Brooklyn	1,200 00	
225	James V. Graham, Nos. 67 and 69 Broadway, Flushing, Queens....	1,500 00	
226	Richmond Lodge, No. 66, F. and A. M., Richmond avenue, Port Richmond, Richmond	900 00	
227	Emanuel Alexander, No. 162 East One Hundred and Sixteenth street, Manhattan	2,250 00	
228	John Kicherer, No. 544 East One Hundred and Forty-seventh street, The Bronx.....	612 00	
229	Estate of Antonio Scocca, Stone and East New York avenues, Brooklyn	360 00	
230	Martin McCauley, No. 57 Nostrand avenue, Brooklyn.....	420 00	
231	A. Sundmacker, assignee, Two Hundred and Ninth street and Hull avenue, The Bronx.....	,900 00	
232	Wood, Harmon & Co., agents, Church avenue and East Forty-eighth street, Brooklyn	325 00	
233	Zion Lutheran Church, Cypress avenue and Himrod street, Queens.	720 00	
234	Tremont Presbyterian Church, Washington avenue and One Hundred and Seventy-fourth street, The Bronx.....	2,000 00	
235	Augusta Gomer, Hamburg avenue and Cornelia street, Brooklyn...	1,020 00	
236	St. Paul's Church, etc., Nos. 541 and 543 Leonard street, Brooklyn.	500 00	
237	Asacog N. Association, No. 52 Sands street, Brooklyn.....	300 00	
296	John J. Bliss, South street, Jamaica, Queens.....	1,400 00	
297	Co-operative Social Settlement Society, No. 28 Jones street, Manhattan	450 00	
298	Wm. Lowe, Nos. 418 to 424 East Sixty-eighth street, Manhattan..	6,000 00	
299	Cord Meyer Company, First street and Jackson avenue, Woodside, Queens	480 00	
333	Richmond Hill House, Inc., No. 28 Macdougal street, Manhattan..	420 00	
334	St. John's German Lutheran Church, Fulton avenue, north of One Hundred and Sixty-ninth street, The Bronx.....	2,300 00	
335	Italian Settlement Society, No. 29 Front street, Brooklyn.....	240 00	
			69,957 00
	Board of Elections.		
Book 3			
170	Arthur J. Morgan, etc., Nos. 232 and 234 West Forty-seventh street, Manhattan	$1,980 00	
171	Arthur J. Morgan, etc., No. 236 West Forty-seventh street, Manhattan	870 00	
173	Manhattan Storage and Warehouse Company, Seventh avenue, between Fifty-second and Fifty-third streets, Manhattan.....	1,500 00	
175	John Winphino, etc., Nos. 521 to 525 Bergen street, The Bronx..	300 00	
176	Aug. Belmont & Co., One Hundred and Thirty-eighth street and Mott avenue, The Bronx.....	240 00	
177	F. T. Scott, Stapleton, Richmond.....	65 00	
178	H. E. Sprague, Tottenville, Richmond.....	40 00	
594	A. B. Yetter, Nos. 305 and 307 East Sixty-first street, Manhattan.	2,000 00	
Book 4			
256	Mary L. Dennler, No. 46 Jackson avenue, Long Island City, Queens	1,020 00	
257	Clinton R. James, Temple Bar Building, Brooklyn.....	4,500 00	
273	Jas. McCreery R. Company, Nos. 112 and 114 West Forty-second street, etc., Manhattan.....	8,500 00	
274	Aug. Belmont & Co., Mott avenue and One Hundred and Thirty-eighth street, The Bronx.....	540 00	
276	Staten Island Savings Bank, Stapleton, Richmond.....	90 00	
277	Cath. T. Cunningham, One Hundred and Sixtieth street, near Washington avenue, The Bronx.....	120 00	
337	John O'Connor, No. 1231 Second avenue, Manhattan.....	2,500 00	
466	Eagle Warehouse & Storage Company, Nos. 28 and 30 Fulton street, Brooklyn	1,482 00	
467	Kath. Fink, No. 60 Carleton avenue, Richmond.....	50 00	
486	Aug. Mietz, Nos. 128 to 132 Mott street, Manhattan.....	1,600 00	
			27,397 00
			$1,053,707 64

County Rents.

New York County.

16	S. Heinemann, etc., Central Park Riding Academy, Manhattan (N. G., N. Y.).....	$1,500 00	
19	Rev. Peter Farrell, west side of Bathgate avenue, south of Tremont, The Bronx (N. G., N. Y.).....	6,000 00	
100	Barclay Realty Company, No. 299 Broadway, Manhattan (Sheriff).	13,470 00	
104	Felix Isman, Inc., No. 280 Broadway, etc., Manhattan (Commissioner of Jurors).....	5,000 00	
106	Temple Court Company, No. 119 Nassau street, Manhattan (Public Administrator)	2,300 00	
			28,270 00
	Richmond County.		
102	Jas. W. Stephens, south side of Centre street, Richmond.....		25 00
	Kings County.		
103	Jno. F. Crosson, No. 113 Schermerhorn street, Brooklyn (Sheriff)..	$1,200 00	
105	Geo. H. Willers, Bedford and Atlantic avenues, Brooklyn (N. G., N. Y.)	1,000 00	
			2,200 00
	Grand total.....		$1,084,202 64

RECAPITULATION.

Department of Finance—		
Manhattan	$151,210 00	
Brooklyn	7,678 75	
Queens	15,000 00	
		$173,888 75
Commissioners of Accounts, Manhattan.....		11,746 00
Courts—		
Manhattan	$53,132 00	
The Bronx	1,500 00	
Brooklyn	33,944 00	
Queens	2,800 00	
Richmond	500 00	
		91,876 00
Coroners' Offices—		
The Bronx	$2,000 00	
Richmond	600 00	
		2,600 00
Bellevue and Allied Hospitals, Manhattan.....		6,832 00
Department of Street Cleaning—		
Manhattan	$113,830 56	
The Bronx	9,100 00	
Brooklyn	34,485 00	
		157,415 56
Fire Department—		
Manhattan	$9,770 00	
The Bronx	1,000 00	
Brooklyn	4,080 00	
Queens	8,440 00	
		23,290 00

Department of Health—		
Manhattan	$29,366 00	
The Bronx	3,200 00	
Brooklyn	7,250 00	
Queens	2,350 00	
Richmond	3,000 00	
		45,166 00
Law Department—		
Manhattan	$13,850 00	
Brooklyn	60 00	
Queens	600 00	
		14,510 00
Police Department—		
Manhattan	$46,795 25	
The Bronx	8,900 00	
Brooklyn	14,850 00	
Queens	7,500 00	
Richmond	5,310 00	
		83,355 25
President of the Borough—		
Manhattan	$62,665 26	
The Bronx	10,550 00	
Brooklyn	25,716 00	
Queens	11,175 00	
Richmond	1,298 00	
		111,404 26
Tenement House Department—		
Manhattan	$15,500 00	
The Bronx	3,254 18	
Brooklyn	11,746 00	
		30,500 18
Department of Water Supply, Gas and Electricity—		
Manhattan	$42,692 36	
The Bronx	4,685 00	
Brooklyn	2,060 00	
Queens	1,260 00	
Richmond	400 00	
		51,097 36
Civil Service Commission, Manhattan		32,070 00
Department of Bridges—		
Manhattan	$29,068 98	
The Bronx	22,851 00	
Brooklyn	5,430 00	
Queens	8,184 00	
		65,533 98
Board of Assessors, Manhattan		4,000 00
Board of Building Examiners, Manhattan		1,600 00
Examining Board of Plumbers, Manhattan		960 00
Department of Taxes and Assessments, Manhattan		3,435 00
Commissioner of Licenses, Manhattan		3,218 00
Board of Estimate and Apportionment, Manhattan		10,782 00
Department of Correction, Manhattan		4,200 00
Department of Public Charities—		
Manhattan	$3,600 00	
Brooklyn	3,000 00	
		6,600 00
Board of City Record, Manhattan		9,428 30
Miscellaneous, Queens		9,000 00
Brooklyn Disciplinary Training School, Brooklyn		480 00
Hudson-Fulton Celebration Commission, Manhattan		1,365 00
Department of Education—		
Manhattan	$35,610 00	
The Bronx	7,462 00	
Brooklyn	15,705 00	
Queens	10,280 00	
Richmond	900 00	
		69,957 00
Board of Elections—		
Manhattan	$18,950 00	
The Bronx	1,200 00	
Brooklyn	5,782 00	
Queens	1,020 00	
Richmond	245 00	
		27,397 00
		$1,053,707 64
New York County.		
Armories and drill rooms	$7,500 00	
Sheriff	13,470 00	
Commissioner of Jurors	5,000 00	
Public Administrator	2,300 00	
		28,270 00
Richmond County.		
Sheriff		25 00
Kings County.		
Sheriff (leased to private party)	$1,200 00	
Armories and drill rooms	1,000 00	
		2,200 00
		$1,084,202 64

October 29, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—I submit herewith a statement in detail showing the amounts necessary to be included in the Budget for 1910 for the payment of the principal and interest on the City Debt, the summaries of which compared with the amounts appropriated for similar purposes for the year 1909 are as follows:

	1909.	1910.	Increase.	Decrease.
For interest	$29,671,070 13	$32,178,760 49	$2,507,690 36	.....
For redemption	17,552,008 20	14,264,935 23	.....	$3,287,072 97
Total	$47,223,078 33	$46,443,695 72	$2,507,690 36	$3,287,072 97
Total net decrease				779,382 61

Accompanying same is a statement showing all bonds maturing during the year 1910 payable from the Sinking Fund or from assessments, and also item for item, the detail in which the Sinking Fund installments have been calculated.

A statement is also herewith submitted showing the condition of the Fund for Street and Park Openings on September 30, 1909. The excess of the liability over the cash balance was four million six hundred and sixty thousand four hundred and eighty-three dollars and one cent ($4,660,483.01) and the amount of Corporate Stock authorized to be issued to reimburse the fund and the remaining unissued is six million one hundred and fifty thousand two hundred and forty one dollars and three cents ($6,150,241.03).

Section 174 of the Greater New York Charter, as amended by chapter 70 of the Laws of 1905, authorizes the Comptroller to issue Street and Park Opening Assessment Bonds to replenish the Fund for Street and Park Openings to the extent of the uncollected assessments which are liens on property benefited and the assessments to be imposed in proceedings in which awards only have been confirmed.

The estimated amount of assessments in Street and Park Opening proceedings remaining to be laid on property benefited thereby, in proceedings in which awards have been confirmed and substantially paid, is	$5,387,227 32	
And the estimated amount of assessments laid and not yet collected, is	7,107,178 34	
Total		$12,494,405 66
Against which Assessment Bonds, Street and Park Openings, have been issued to the amount of		4,145,000 00
Balance		$8,349,405 66

Under authority contained in chapter 70 of the Laws of 1905, provisions can be made for any balance, or excess of liability over cash balance and Corporate Stock authorized to be issued for account of this fund by the issue of Assessment Bonds, Street and Park Openings, and the necessity of including said balance or excess in the Budget no longer exists.

Yours respectfully,

(Signed) H. A. METZ, Comptroller.

Interest on the City Debt.		
The City of New York	$19,788,776 53	
The City of New York, as constituted prior to January 1, 1898	2,759,410 29	
The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	2,143,258 20	
Corporations in Queens County	390,214 91	
Corporations in Richmond County	97,100 56	
Interest on Bonds and Stock to be issued in 1909 after September 30, and in 1910	2,000,000 00	
Interest on Revenue Bonds	5,000,000 00	
		$32,178,760 49
Redemption of the City Debt.		
The City of New York	$5,500,000 00	
The City of New York, as constituted prior to January 1, 1898	20,133 20	
The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	1,204,000 00	
Corporations in Queens County	296,640 48	
Corporations in Richmond County	83,546 71	
		7,104,320 39
Installments payable in 1910.		
The City of New York (general)	$4,917,486 19	
The City of New York (Water Bonds)	1,264,193 67	
The City of New York, as constituted prior to January 1, 1898 (Water Bonds)	579,224 60	
The City of Brooklyn, as constituted prior to January 1, 1898	397,593 71	
Long Island City	2,116 67	
		7,160,614 84
		$46,443,695 72

BUDGET FOR 1910.

Interest on the City Debt.

THE CITY OF NEW YORK.

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest
3	Corporate Stock (for and on account of Armories), chap. 299, Laws of 1883	1923	$19,500 00	$585 00	
3	Corporate Stock (for and on account of Armories), chap. 299, Laws of 1883	1940	38,563 49	1,156 90	
3	Corporate Stock (for and on account of Armories), chap. 212, Laws of 1898	1930	115,681 32	3,470 44	
3	Corporate Stock (for and on account of Armories), chap. 212, Laws of 1898	1940	17,500 00	525 00	
3½	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1941	550,000 00	19,250 00	
3	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1942	566,653 27	16,999 60	
3	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1952	52,500 00	1,575 00	
3	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1953	365,000 00	10,950 00	
3½	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1953	100,000 00	3,500 00	
3½	Corporate Stock (for Armories and Sites therefor), chap. 212, Laws of 1898	1954	250,000 00	8,750 00	$66,761 94
3	Corporate Stock (Change of Grade Damage Commission)	1928	115,480 00	$3,464 40	
3½	Corporate Stock (Change of Grade Damage Commission)	1940	250,000 00	8,750 00	
3	Corporate Stock (Change of Grade Damage Commission)	1941	217,720 00	6,531 60	
3	Corporate Stock (Change of Grade Damage Commission)	1942	187,500 00	5,625 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (Change of Grade Damage Commission)	1952	$7,000 00	$210 00	
3	Corporate Stock (Change of Grade Damage Commission)	1953	32,500 00	975 00	$25,550 00
3	Corporate Stock (Construction and Equipment of Botanical Museum and Herbarium)	1928	175,000 00	$5,250 00	
3½	Corporate Stock (Construction and Equipment of Botanical Museum and Herbarium)	1928	200,000 00	7,000 00	12,250 00
3	Corporate Stock (New York Botanical Garden, Bronx Park)	1941	125,000 00	$3,750 00	
3	Corporate Stock (New York Botanical Garden, Bronx Park)	1942	50,000 00	1,500 00	
3	Corporate Stock (New York Botanical Garden, Bronx Park)	1952	25,000 00	750 00	6,000 00
3	Corporate Stock (for the Improvement of the Botanical Garden and the equipment of the Botanical Museum and Herbarium in Bronx Park, secs. 47 and 169 of the Greater New York Charter, as amended)	1952	44,000 00	$1,320 00	
3	Corporate Stock (for the Improvement of the Botanical Garden and the Equipment of the Botanical Museum and Herbarium in Bronx Park), secs. 47 and 169 of the Greater New York Charter, as amended.	1953	20,000 00	600 00	
3½	Corporate Stock (for the Improvement of the Botanical Garden and the Equipment of the Botanical Museum and Herbarium in Bronx Park), secs. 47 and 169 of the Greater New York Charter, as amended.	1952	50,000 00	1,750 00	
3½	Corporate Stock (for the Improvement of the Botanical Garden and the Equipment of the Botanical Museum and Herbarium in Bronx Park, secs. 47 and 169 of the Greater New York Charter, as amended.	1954	100,000 00	3,500 00	7,170 00
3½	Corporate Stock (Construction, etc., Appellate Division, Supreme Court)	1928	250,000 00	$8,750 00	
3½	Corporate Stock (Construction, etc., Appellate Division, Supreme Court)	1929	375,000 00	13,125 00	
3	Corporate Stock (Construction, etc., Appellate Division, Supreme Court)	1929	85,000 00	2,550 00	24,425 00
3	Corporate Stock (New Buildings, etc., Department of Health)	1952	107,500 00	$3,225 00	
3	Corporate Stock (New Buildings, etc., Department of Health)	1953	74,000 00	2,220 00	
3½	Corporate Stock (New Buildings, etc., Department of Health)	1953	250,000 00	8,750 00	
3	Corporate Stock (New Buildings, etc., Department of Health)	1954	1,000 00	30 00	
3½	Corporate Stock (New Buildings, etc., Department of Health)	1954	200,000 00	7,000 00	21,225 00
3½	Corporate Stock (Buildings, etc., Department of Correction)	1928	300,000 00	$10,500 00	
3	Corporate Stock (Buildings, etc., Department of Correction)	1928	40,000 00	1,200 00	
3½	Corporate Stock (Buildings, etc., Department of Correction)	1929	650,000 00	22,750 00	
3½	Corporate Stock (Buildings, etc., Department of Correction, sections 48 and 169, Greater New York Charter, as amended)	1952	150,000 00	5,250 00	39,700 00
3	Corporate Stock (Buildings, etc., Department of Public Charities), chap. 724, Laws of 1896	1929	$31,517 50	$945 53	
3	Corporate Stock (Buildings, etc., Department of Public Charities), chap. 724, Laws of 1896	1940	125,000 00	3,750 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), chap. 724, Laws of 1896	1941	10,000 00	300 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), chap. 724, Laws of 1896	1942	10,000 00	300 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), sec. 48, chap. 378, Laws of 1897	1940	162,000 00	4,860 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), sec. 48, chap. 378, Laws of 1897	1941	25,000 00	750 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities,) sec. 48, chap. 378, Laws of 1897	1942	51,000 00	1,530 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), secs. 47 and 169, Greater New York Charter, as amended	1952	405,000 00	12,150 00	
3	Corporate Stock (Buildings, etc., Department of Public Charities), secs. 47 and 169, Greater New York Charter, as amended	1953	127,500 00	3,825 00	
3½	Corporate Stock (Buildings, etc., Department of Public Charities), secs. 47 and 169, Greater New York Charter, as amended	1953	175,000 00	6,125 00	
3½	Corporate Stock (Buildings, etc., Department of Public Charities), secs. 47 and 169, Greater New York Charter, as amended	1954	200,000 00	7,000 00	$41,535 53
3	Corporate Stock (Buildings, etc., Ward's Island and Central Islip)	1929	2,000 00	.....	60 00
3	Corporate Stock (Buildings, etc., Crotona Park)	1914	2,500 00	.....	75 00
3½	Corporate Stock (Addition to Public Building, Crotona Park)	1928	75,000 00	.....	2,625 00
3½	Corporate Stock (Construction Public Bath, Rivington Street)	1928	50,000 00	$1,750 00	
3	Corporate Stock (Construction Public Bath, Rivington Street)	1928	20,000 00	600 00	2,350 00
3	Corporate Stock (Construction and Equipment of Interior Public Baths, and for Sites therefor)	1942	150,000 00	.....	4,500 00
3	Corporate Stock (For Interior Public Baths)	1952	72,000 00	$2,160 00	
3½	Corporate Stock (For Interior Public Baths)	1952	250,000 00	8,750 00	
3	Corporate Stock (For Interior Public Baths)	1953	50,000 00	1,500 00	
3½	Corporate Stock (For Interior Public Baths)	1953	100,000 00	3,500 00	
3½	Corporate Stock (For Interior Public Baths)	1954	350,000 00	12,250 00	28,160 00
3½	Corporate Stock (Erection, etc., of Hospital Building, Gouverneur Slip)	1928	50,000 00	$1,750 00	
3½	Corporate Stock (Erection, etc., of Hospital Building, Gouverneur Slip)	1930	85,000 00	2,975 00	4,725 00
3	Corporate Stock (Completing the Construction of Gouverneur Hospital, Borough of Manhattan)	1953	8,000 00	$240 00	
3½	Corporate Stock (Completing the Construction of Gouverneur Hospital, Borough of Manhattan)	1954	100,000 00	3,500 00	3,740 00

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (Construction of a New Hospital in the Borough of The Bronx)	1953	$11,000 00	.....	$330 00
3½	Corporate Stock (Construction of a New Bellevue Hospital)	1954	50,000 00	.....	1,750 00
3	Corporate Stock (Lands, etc., Public Hospital, Lenox Avenue, One Hundred and Thirty-sixth and One Hundred and Thirty-seventh Streets)	1952	220,321 70	.....	6,609 65
3	Corporate Stock (Construction of the New Harlem Hospital)	1952	13,000 00	$390 00	
3½	Corporate Stock (Construction of the New Harlem Hospital)	1954	200,000 00	7,000 00	7,390 00
3	Corporate Stock (New Fordham Hospital, Borough of The Bronx)	1953	35,000 00	$1,050 00	
3½	Corporate Stock (New Fordham Hospital, Borough of The Bronx)	1954	50,000 00	1,750 00	2,800 00
3½	Corporate Stock (Construction of Extension to Building, Metropolitan Museum of Art)	1928	600,000 00	$21,000 00	
3	Corporate Stock (Construction of Extension to Building, Metropolitan Museum of Art)	1929	50,000 00	1,500 00	
3	Corporate Stock (Construction of Extension to Building, Metropolitan Museum of Art)	1940	70,000 00	2,100 00	
3	Corporate Stock (Construction of Extension to Building, Metropolitan Museum of Art)	1941	50,000 00	1,500 00	
3	Corporate Stock (Construction of Extension to Building, Metropolitan Museum of Art)	1942	30,000 00	900 00	27,000 00
3	Corporate Stock (Fitting up Building in Central Park, Metropolitan Museum of Art)	1941	55,000 00	$1,650 00	
3	Corporate Stock (Fitting up Building in Central Park, Metropolitan Museum of Art)	1942	101,000 00	3,030 00	
3	Corporate Stock (Fitting up Building in Central Park, Metropolitan Museum of Art)	1952	14,000 00	420 00	
3	Corporate Stock (Fitting up Building in Central Park, Metropolitan Museum of Art)	1953	20,000 00	600 00	5,700 00
3½	Corporate Stock (Addition to Building American Museum of Natural History, chap. 213, Laws of 1897)	1928	250,000 00	$8,750 00	
3½	Corporate Stock (Addition to Building American Museum of Natural History, chap. 213, Laws of 1897)	1929	150,000 00	5,250 00	
3½	Corporate Stock (Addition to Building American Museum of Natural History, chap. 175, Laws of 1896)	1928	300,000 00	10,500 00	
3½	Corporate Stock (Addition to Building American Museum of Natural History, chap. 175, Laws of 1896)	1929	150,000 00	5,250 00	29,750 00
3	Corporate Stock (Furnishing and Equipping Buildings American Museum of Natural History, chap. 185, Laws of 1900)	1940	150,000 00	$4,500 00	
3	Corporate Stock (Furnishing and Equipping Buildings American Museum of Natural History, chap. 185, Laws of 1900)	1941	200,000 00	6,000 00	10,500 00
3	Corporate Stock (Completion, etc., of Unfinished Portion of Building of the American Museum of Natural History)	1952	$35,000 00	$1,050 00	
3	Corporate Stock (Completion, etc., of Unfinished Portion of Building of the American Museum of Natural History)	1953	17,000 00	510 00	
3½	Corporate Stock (Completion, etc., of Unfinished Portion of Building of the American Museum of Natural History)	1953	50,000 00	1,750 00	
3½	Corporate Stock (Completion, etc., of Unfinished Portion of Building of the American Museum of Natural History)	1954	50,000 00	1,750 00	$5,060 00
3	Corporate Stock (Construction and Installation of a New Heating and Lighting Plant for the American Museum of Natural History)	1952	20,000 00	$600 00	
3	Corporate Stock (Construction and Installation of a New Heating and Lighting Plant for the American Museum of Natural History)	1953	55,500 00	1,665 00	
3½	Corporate Stock (Construction and Installation of a New Heating and Lighting Plant for the American Museum of Natural History)	1953	50,000 00	1,750 00	
3½	Corporate Stock (Construction and Installation of a New Heating and Lighting Plant for the American Museum of Natural History)	1954	50,000 00	1,750 00	5,765 00
3½	Corporate Stock (Additions to Building Museum of Arts and Sciences, Borough of Brooklyn)	1930	300,000 00	$10,500 00	
3	Corporate Stock (Additions to Building Museum of Arts and Sciences, Borough of Brooklyn)	1941	300,000 00	9,000 00	19,500 00
3½	Corporate Stock (Construction of Easterly Wing, Brooklyn Institute of Arts and Sciences)	1954	150,000 00	.....	5,250 00
3	Corporate Stock (Completion of Additions to the Brooklyn Institute of Arts and Sciences)	1952	49,500 00	.....	1,485 00
3	Corporate Stock (Court-house, Second District Municipal Court, and Sixth District Magistrates' Court, Borough of Brooklyn)	1953	35,000 00	.....	1,050 00
3	Corporate Stock (New Municipal Building and an Additional Court Building, Borough of Brooklyn)	1953	7,500 00	.....	225 00
3	Corporate Stock (Acquiring Property for a Site for the Thirteenth District Municipal Court, Borough of Manhattan)	1953	127,000 00	.....	3,810 00
3	Corporate Stock (Completion of the Construction of the Criminal Court Building, Borough of Manhattan)	1952	97,000 00	$2,910 00	
3	Corporate Stock (Completion of the Construction of the Criminal Court Building, Borough of Manhattan)	1953	35,000 00	1,050 00	3,960 00
3	Corporate Stock (For Account of Criminal Court-house)	1923	20,000 00	.....	600 00
3	Corporate Stock (For Improving and Equipping the Brown Stone Building in the City Hall Park, Borough of Manhattan)	1953	1,000 00	.....	30 00
3	Corporate Stock (Construction of the New Richmond County Jail)	1952	3,000 00	$90 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (Construction of the New Richmond County Jail)	1953	$55,000 00	$1,650 00	$1,650 00
3	Corporate Stock (Construction, etc., Borough Building in the Borough of Richmond)	1952	44,000 00	$1,320 00	
3	Corporate Stock (Construction, etc., Borough Building in the Borough of Richmond)	1953	93,401 45	2,804 74	
3½	Corporate Stock (Construction, etc., Borough Building in the Borough of Richmond)	1954	50,000 00	1,750 00	5,874 74
3	Corporate Stock (for a Borough Hall in the Borough of Queens)	1953	40,000 00	.....	1,200 00
3½	Corporate Stock (Court-house, One Hundred and Sixty-first Street and Third Avenue)	1940	147,078 84	.....	5,147 76
3	Corporate Stock (Construction and Equipment of a Court-house in the Borough of The Bronx)	1953	10,000 00	.....	300 00
3	Corporate Stock (Repairs to the County Court-house, County of New York)	1953	5,000 00	.....	150 00
3	Corporate Stock (Lands, etc., College City of New York)	1941	14,809 73	$445 82	
3	Corporate Stock (Lands, etc., College City of New York)	1942	121,118 84	3,653 57	
3	Corporate Stock (Lands, etc., College City of New York, section 47)	1942	16,051 78	481 55	4,560 94
3	Corporate Stock (Buildings, etc., College of the City of New York)	1952	500,000 00	$15,000 00	
3½	Corporate Stock (Buildings, etc., College of the City of New York)	1954	100,000 00	3,500 00	18,500 00
3	Corporate Stock (Construction of a Dormitory, Medical College Building, Borough of Manhattan)	1952	50,000 00	$1,500 00	
3	Corporate Stock (Construction of a Dormitory, Medical College Building, Borough of Manhattan)	1953	3,000 00	90 00	1,590 00
3½	Corporate Stock (for Schoolhouses and Sites therefor)	1928	1,820,785 41	$63,727 49	
3	Corporate Stock (for Schoolhouses and Sites therefor)	1928	1,174,055 46	35,221 66	
3½	Corporate Stock (for Schoolhouses and Sites therefor)	1940	300,000 00	10,500 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, section 169)	1942	1,800,000 00	63,000 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, section 169)	1952	1,000,000 00	35,000 00	
3	Corporate Stock (for Schoolhouses and Sites therefor, section 169)	1953	50,000 00	1,500 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, section 169)	1954	2,600,000 00	91,000 00	
3	Corporate Stock (for Schoolhouses and Sites therefor, sections 47 and 169 of the Greater New York Charter, as amended)	1952	750,000 00	22,500 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, sections 47 and 169 of the Greater New York Charter, as amended)	1952	500,000 00	17,500 00	
3	Corporate Stock (for Schoolhouses and Sites therefor, sections 47 and 169 of the Greater New York Charter, as amended)	1953	150,000 00	4,500 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, sections 47 and 169 of the Greater New York Charter, as amended)	1953	$3,200,000 00	$112,000 00	
3½	Corporate Stock (for Schoolhouses and Sites therefor, sections 47 and 169 of the Greater New York Charter, as amended)	1954	3,000,000 00	105,000 00	$561,449 15
3	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1929	1,656,327 30	$49,689 82	
3½	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1929	1,700,000 00	59,500 00	
3½	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1940	1,900,000 00	66,500 00	
3	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1940	8,273 20	248 20	
3	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1941	1,000,000 00	30,000 00	
3½	Corporate Stock (School-houses and Sites, Boroughs of Manhattan and The Bronx)	1941	1,000,000 00	35,000 00	240,938 02
3	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1929	85,615 00	$2,568 45	
3½	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1929	1,800,000 00	63,000 00	
3	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1940	7,385 00	221 55	
3½	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1940	2,190,000 00	76,650 00	
3	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1941	300,000 00	9,000 00	
3½	Corporate Stock (School-houses and Sites, Borough of Brooklyn)	1941	900,000 00	31,500 00	182,940 00
3	Corporate Stock (School-houses and Sites, Borough of Queens)	1929	7,650 00	$229 50	
3½	Corporate Stock (School-houses and Sites, Borough of Queens)	1929	500,000 00	17,500 00	
3	Corporate Stock (School-houses and Sites, Borough of Queens)	1940	49,350 00	1,480 50	
3½	Corporate Stock (School-houses and Sites, Borough of Queens)	1940	150,000 00	5,250 00	
3	Corporate Stock (School-houses and Sites, Borough of Queens)	1941	200,000 00	6,000 00	
3½	Corporate Stock (School-houses and Sites, Borough of Queens)	1941	200,000 00	7,000 00	37,460 00
3½	Corporate Stock (School-houses and Sites, Borough of Richmond)	1929	100,000 00	$3,500 00	
3	Corporate Stock (School-houses and Sites, Borough of Richmond)	1940	47,000 00	1,410 00	
3	Corporate Stock (School-houses and Sites, Borough of Richmond)	1941	150,000 00	4,500 00	9,410 00
3	Corporate Stock (for High Schools and Sites therefor in the Borough of Richmond)	1941	100,000 00	$3,000 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (for High Schools and Sites therefor in the Borough of Richmond)	1953	$75,000 00	$2,250 00	$5,250 00
3	Corporate Stock (High Schools and Sites therefor)	1929	240,851 80	$7,405 55	
3	Corporate Stock (High Schools and Sites therefor)	1940	26,419 45	792 58	
3½	Corporate Stock (High Schools and Sites therefor)	1940	813,483 90	28,471 94	
3	Corporate Stock (High Schools and Sites therefor)	1941	112,637 40	3,379 12	
3½	Corporate Stock (High Schools and Sites therefor)	1941	800,000 00	28,000 00	
3	Corporate Stock (High Schools and Sites therefor)	1953	1,000 00	30 00	
3½	Corporate Stock (High Schools and Sites therefor)	1953	75,000 00	2,625 00	70,704 19
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1928	75,294 54	$2,258 84	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1928	1,600,000 00	50,000 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1940	624,705 46	18,741 16	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1940	250,000 00	8,750 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1941	800,000 00	24,000 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), chap. 246, Laws of 1896	1941	650,000 00	22,750 00	
3½	Corporate Stock (Uses and Purposes Department of Docks and Ferries), sec. 180	1928	2,000,000 00	60,000 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1940	750,000 00	22,500 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1929	3,000,000 00	105,000 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1940	2,250,000 00	78,750 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1941	1,000,000 00	30,000 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1942	850,000 00	25,500 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1952	5,000,000 00	175,000 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1953	2,500,000 00	87,500 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 180	1954	2,650,000 00	92,750 00	
3	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 47	1952	1,000,000 00	30,000 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 47	1953	$500,000 00	$17,500 00	
3½	Corporate Stock (Uses and Purposes, Department of Docks and Ferries), sec. 47	1954	500,000 00	17,500 00	$874,500 00
3	Corporate Stock (Bridge Connecting Pelham Bay Park and City Island)	1919	135,000 00	$4,050 00	
3	Corporate Stock (Bridge Connecting Pelham Bay Park and City Island)	1941	80,000 00	2,400 00	6,450 00
3	Corporate Stock (Bridge over Eastchester Bay, in Pelham Bay Park), sec. 48	1941	10,000 00	$300 00	
3	Corporate Stock (Bridge over Eastchester Bay, in Pelham Bay Park), sec. 48	1952	2,500 00	75 00	
3	Corporate Stock (Bridge over Eastchester Bay, in Pelham Bay Park), sec. 48	1953	2,500 00	75 00	450 00
3	Corporate Stock (Bridge over Eastchester Bay, in Pelham Bay Park), sec. 47	1953	52,500 00	.....	1,575 00
3½	Corporate Stock (Harlem River Bridge at Willis Avenue)	1928	1,029,844 83	$36,044 57	
3½	Corporate Stock (Harlem River Bridge at Willis Avenue)	1930	500,000 00	17,500 00	
3	Corporate Stock (Harlem River Bridge at Willis Avenue)	1941	35,000 00	1,050 00	
3	Corporate Stock (Harlem River Bridge at Willis Avenue)	1942	25,000 00	750 00	
3	Corporate Stock (Harlem River Bridge at Willis Avenue)	1952	194,000 00	5,820 00	
3	Corporate Stock (Harlem River Bridge at Willis Avenue)	1953	36,155 17	1,084 66	62,249 23
3½	Corporate Stock (Approach to Bridge over the Harlem River at Willis Avenue from the Southern Boulevard)	1954	150,000 00	.....	5,250 00
3	Corporate Stock (For the Payment of Awards for Lands Acquired for the Construction of the Bridge over the Harlem River, between First Avenue and Willis Avenue)	1953	31,671 87	.....	950 16
3½	Corporate Stock (Bridge at Gerard, Walton and River Avenues)	1928	50,000 00	$1,750 00	
3	Corporate Stock (Bridge at Gerard, Walton and River Avenues)	1922	33,000 00	990 00	
3	Corporate Stock (Bridge at Gerard, Walton and River Avenues)	1941	2,000 00	60 00	2,800 00
3	Corporate Stock (Bridge over the Tracks of the New York and Harlem Railroad at One Hundred and Fifty-third Street)	1942	50,000 00	$1,500 00	
3	Corporate Stock (Bridge over the Tracks of the New York and Harlem Railroad at One Hundred and Fifty-third Street)	1952	25,000 00	750 00	
3	Corporate Stock (Bridge over the Tracks of the New York and Harlem Railroad at One Hundred and Fifty-third Street)	1953	20,000 00	600 00	2,850 00
3½	Corporate Stock (For the New East River Bridge)	1928	2,000,000 00	$70,000 00	
3	Corporate Stock (For the New East River Bridge)	1929	1,287,823 66	38,634 71	
3½	Corporate Stock (For the New East River Bridge)	1929	700,000 00	24,500 00	
3½	Corporate Stock (For the New East River Bridge)	1940	4,500,000 00	157,500 00	
3½	Corporate Stock (For the New East River Bridge)	1941	750,000 00	26,250 00	

Rate Per Cent	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3½	Corporate Stock (For the New East River Bridge)	1952	$2,000,000 00	$70,000 00	
3	Corporate Stock (For the New East River Bridge)	1953	1,555,000 00	46,650 00	
3½	Corporate Stock (For the New East River Bridge)	1953	1,000,000 00	35,000 00	
3½	Corporate Stock (For the New East River Bridge)	1954	3,700,000 00	129,500 00	$598,034 71
3	Corporate Stock (Temporary Bridge, Bronx River, at Westchester Avenue)	1910	10,000 00	$480 00	
3	Corporate Stock (Temporary Bridge, Bronx River, at Westchester Avenue)	1953	500 00	15 00	495 00
3	Corporate Stock (Bridge over Bronx River, at Westchester Avenue)	1941	75,000 00	.....	2,250 00
3	Corporate Stock (Constructing a Bridge over The Bronx River at One Hundred and Seventy-seventh Street)	1953	10,000 00	.....	300 00
3	Corporate Stock (Bridge over the Bronx River, and Approaches to the Bridge over the New York and Harlem Railroad, at East Two Hundred and Thirty-third Street, in the Borough of The Bronx)	1952	25,000 00	$750 00	
3	Corporate Stock (Bridge over the Bronx River, and Approaches to the Bridge over the New York and Harlem Railroad, at East Two Hundred and Thirty-third Street, in the Borough of The Bronx)	1953	1,000 00	30 00	780 00
3	Corporate Stock (Bridge over Gerritsen's Creek, at Avenue U, in the Borough of Brooklyn)	1952	10,000 00	.....	480 00
3	Corporate Stock (For the Construction of Bridges over Gowanus Canal, Borough of Brooklyn)	1953	195,000 00	$5,850 00	
3	Corporate Stock (For the Construction of Bridges over Gowanus Canal, Borough of Brooklyn)	1954	15,000 00	450 00	6,300 00
3	Corporate Stock (Bridge over Newtown Creek, from Grand Street, Brooklyn, to Grand Street, Queens), section 48	1940	180,000 00	$5,400 00	
3	Corporate Stock (Bridge over Newtown Creek from Grand Street, Brooklyn, to Grand Street, Queens), section 48	1932	20,000 00	600 00	
3	Corporate Stock (Bridge over Newtown Creek, from Grand Street, Brooklyn, to Grand Street, Queens), section 47	1932	10,000 00	300 00	6,300 00
3	Corporate Stock (Bridge over Flushing Creek, between Jackson Avenue, Newtown, Broadway, Flushing, in the Borough of Queens)	1953	36,000 00	.....	1,080 00
3	Corporate Stock (Bridge over Newtown Creek, from Manhattan Avenue, Borough of Brooklyn, to Vernon Avenue, in the Borough of Queens)	1952	250,000 00	$7,500 00	
3½	Corporate Stock (Bridge over Newtown Creek, from Manhattan Avenue, Borough of Brooklyn, to Vernon Avenue, in the Borough of Queens)	1954	350,000 00	12,250 00	19,750 00
3	Corporate Stock (Bridge over New York and Harlem Railroad to extend East One Hundred and Eighty-ninth Street)	1952	$6,000 00	$180 00	
3	Corporate Stock (Bridge over New York and Harlem Railroad to extend East One Hundred and Eighty-ninth Street)	1953	18,000 00	540 00	$720 00
3	Corporate Stock (Bridge over the Harlem River, from Two Hundred and Seventh Street, Borough of Manhattan, to One Hundred and Eighty-fourth Street, Borough of The Bronx)	1952	1,000 00	$30 00	
3	Corporate Stock (Bridge over the Harlem River, from Two Hundred and Seventh Street, Borough of Manhattan, to One Hundred and Eighty-fourth Street, Borough of The Bronx)	1953	51,000 00	1,530 00	
3½	Corporate Stock (Bridge over the Harlem River, from Two Hundred and Seventh Street, Borough of Manhattan, to One Hundred and Eighty-fourth Street, Borough of The Bronx)	1954	100,000 00	3,500 00	5,060 00
3	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1928	20,000 00	$600 00	
3	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1940	27,000 00	$10 00	
3	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1941	10,000 00	300 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1941	750,000 00	26,250 00	
3	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1953	75,000 00	2,250 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1953	250,000 00	8,750 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Queens), section 48	1954	450,000 00	15,750 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Queens), section 47	1954	300,000 00	10,500 00	65,210 00
3	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 48	1928	20,000 00	$600 00	
3	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 48	1940	40,000 00	1,200 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 48	1941	750,000 00	26,250 00	
3	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 48	1952	240,000 00	7,200 00	
3	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 47	1952	510,000 00	15,300 00	
3	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 47	1953	93,000 00	2,790 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3½	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 47	1953	$1,750,000 00	$61,250 00	
3½	Corporate Stock (Bridge over East River, Manhattan and Brooklyn), section 47	1954	500,000 00	17,500 00	$132,040 00
3½	Corporate Stock (Bridge over Harlem River at Third Avenue)	1929	250,000 00	.....	8,750 00
3½	Corporate Stock (South Third Avenue Approach to Harlem River Bridge)	1941	800,000 00	$28,000 00	
3	Corporate Stock (South Third Avenue Approach to Harlem River Bridge)	1941	11,000 00	330 00	38,330 00
3½	Corporate Stock (Awards for Damages, Change of Grade of Streets and Avenues, Bridge over Harlem River at Third Avenue)	1954	100,000 00	$3,500 00	
3	Corporate Stock (Awards for Damages, Change of Grade of Streets and Avenues, Bridge over Harlem River at Third Avenue)	1953	9,499 59	284 99	3,784 99
3½	Corporate Stock (Bridge over Mott Haven Canal at One Hundred and Thirty-fifth street)	1941	30,000 00	.....	1,050 00
3½	Corporate Stock (Acquiring Lands, etc., Bridge over Harlem River from One Hundred and Forty-fifth Street to One Hundred and Forty-ninth Street)	1953	250,000 00	$8,750 00	
3½	Corporate Stock (Acquiring Lands, etc., Bridge over Harlem River from One Hundred and Forty-fifth Street to One Hundred and Forty-ninth Street)	1954	200,000 00	7,000 00	15,750 00
3½	Corporate Stock (Bridge over Harlem River, One Hundred and Forty-fifth and One Hundred and Forty-ninth Streets)	1929	1,000,000 00	$35,000 00	
3½	Corporate Stock (Bridge over Harlem River, One Hundred and Forty-fifth and One Hundred and Forty-ninth Streets)	1941	150,000 00	5,250 00	
3	Corporate Stock (Bridge over Harlem River, One Hundred and Forty-fifth and One Hundred and Forty-ninth Streets)	1942	79,620 44	2,388 61	
3½	Corporate Stock (Bridge over Harlem River, One Hundred and Forty-fifth and One Hundred and Forty-ninth Streets, chapter 719, Laws of 1900)	1941	250,000 00	8,750 00	51,388 61
3	Corporate Stock (Payment of Awards for Changes of Grades, etc., Bridge over Harlem River from One Hundred and Forty-fifth Street to One Hundred and Forty-ninth Street)	1953	165,000 00	.....	4,950 00
3	Corporate Stock (Bridge Across Prospect Avenue, on the line of Seeley Street, in the Twenty-ninth Ward, Borough of Brooklyn)	1952	8,000 00	$240 00	
3	Corporate Stock (Bridge Across Prospect Avenue, on the line of Seeley Street, in the Twenty-ninth Ward, Borough of Brooklyn)	1953	14,000 00	420 00	660 00
3	Corporate Stock (Construction of Bridge and Approaches in Connection with the Depression of the Port Morris Branch of the New York Central and Hudson River Railroad)	1953	$3,525 00	.....	$105 75
3	Corporate Stock (for the Acquisition of a Gore of Land at the Southeasterly Corner of William Street and the Present Property of the New York and Brooklyn Bridge, Borough of Manhattan)	1953	1,800 00	.....	54 00
3	Corporate Stock (Public Park, Twenty-seventh and Twenty-eighth Streets, Ninth and Tenth Avenues)	1921	1,247 90	.....	37 41
3	Corporate Stock (Lands, etc., Public Park at Worth and Baxter Streets)	1942	185,604 85	.....	5,568 15
3	Corporate Stock (Public Park, One Hundred and Eleventh and One Hundred and Fourteenth Streets, First Avenue, and East River)	1918	170,033 00	$5,100 99	
3½	Corporate Stock (Public Park, One Hundred and Eleventh and One Hundred and Fourteenth Streets, First Avenue and East River)	1928	1,738,362 12	60,842 67	
3	Corporate Stock (Public Park, One Hundred and Eleventh and One Hundred and Fourteenth Streets, First Avenue and East River)	1929	65,000 00	1,950 00	
3½	Corporate Stock (Public Park, One Hundred and Eleventh and One Hundred and Fourteenth Streets, First Avenue and East River)	1940	886,886 30	31,041 02	98,934 68
3	Corporate Stock (Construction and Improvement, St. John's Park)	1916	50,000 00	$1,500 00	
3	Corporate Stock (Construction and Improvement, St. John's Park)	1941	15,000 00	450 00	1,950 00
3	Corporate Stock (Public Park, Eleventh Ward, Houston, Stanton, Pitt and Sheriff Streets)	1920	198,779 25	$5,963 38	
3	Corporate Stock (Public Park, Eleventh Ward, Houston, Stanton, Pitt and Sheriff Streets)	1940	14,000 00	420 00	
3½	Corporate Stock (Public Park, Eleventh Ward, Houston, Stanton, Pitt and Sheriff Streets)	1940	2,000,000 00	70,000 00	76,383 38
3	Corporate Stock (Public Park, Fifty-second and Fifty-fourth Streets, Eleventh and Twelfth Avenues)	1929	7,161 70	$214 85	
3½	Corporate Stock (Public Park, Fifty-second and Fifty-fourth Streets, Eleventh and Twelfth Avenues), chap. 320, Laws of 1887	1941	990,000 00	34,650 00	
3½	Corporate Stock (Public Park, Fifty-second and Fifty-fourth Streets, Eleventh and Twelfth Avenues), sec. 48	1941	260,000 00	9,100 00	43,964 85
3	Corporate Stock (Silver Lake Park, Borough of Richmond)	1940	115,000 00	.....	3,450 00
3	Corporate Stock (Construction and Improvement of Parkways)	1914	100,000 00	$3,000 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3½	Corporate Stock (Construction and Improvement of Parkways)	1929	$100,000 00	$3,500 00	
3	Corporate Stock (Construction and Improvement of Parkways)	1940	100,000 00	3,000 00	
3	Corporate Stock (Construction and Improvement of Parkways)	1941	10,000 00	300 00	
3	Corporate Stock (Construction and Improvement of Parkways)	1942	80,000 00	2,400 00	
3	Corporate Stock (Construction and Improvement of Parkways)	1953	10,000 00	300 00	$12,500 00
3	Corporate Stock (Construction of Sea-wall, East River Park)	1911	71,500 00	.....	2,145 00
3	Corporate Stock (Improvement and Completion of Riverside Park and Drive)	1921	153,500 00	$4,605 00	
3	Corporate Stock (Improvement and Completion of Riverside Park and Drive)	1940	91,610 68	2,748 32	
3	Corporate Stock (Improvement and Completion of Riverside Park and Drive)	1941	75,000 00	2,250 00	
3	Corporate Stock (Improvement and Completion of Riverside Park and Drive)	1942	15,600 00	468 00	
3	Corporate Stock (Improvement and Completion of Riverside Park and Drive)	1952	3,000 00	90 00	10,161 32
3	Corporate Stock (Completion of Riverside Park and Drive)	1940	1,500 00	.....	45 00
3	Corporate Stock (Improvement Public Parks, Parkways and Drives in The City of New York), chap. 643, Laws of 1897	1921	123,500 00	$3,705 00	
3	Corporate Stock (Improvement Public Parks, Parkways and Drives in The City of New York), chap. 194, Laws of 1896	1918	15,000 00	450 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169.	1942	150,000 00	5,250 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169..	1942	25,000 00	750 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169..	1952	191,500 00	5,745 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169..	1952	100,000 00	3,500 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169..	1953	200,500 00	6,015 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 169..	1954	150,000 00	5,250 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1942	100,000 00	3,000 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1952	$431,000 00	$12,930 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1952	150,000 00	5,250 00	
3	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1953	308,500 00	9,255 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1953	450,000 00	15,750 00	
3½	Corporate Stock (Improvement of Parks, Parkways and Drives in The City of New York), sec. 47 ..	1954	650,000 00	22,750 00	$99,600 00
3	Corporate Stock (Improvement of Parks, Parkways, Playgrounds, Boulevards and Driveways in The City of New York)	1953	297,500 00	.....	8,925 00
2½	Corporate Stock (New Parks, Twenty-third and Twenty-fourth Wards and Westchester County)	1909-1929	5,000 00	$125 00	
2½	Corporate Stock (New Parks, Twenty-third and Twenty-fourth Wards and Westchester County)	1929	8,000 00	200 00	
3	Corporate Stock (New Parks, Twenty-third and Twenty-fourth Wards and Westchester County)	1929	12,500 00	375 00	700 00
3	Corporate Stock (Public Park in the Twelfth Ward)	1921	29,494 86	$884 85	
3	Corporate Stock (Public Park in the Twelfth Ward)	1941	20,000 00	600 00	
3	Corporate Stock (Public Park in the Twelfth Ward)	1942	7,500 00	225 00	
3	Corporate Stock (Public Park in the Twelfth Ward)	1953	5,048 94	151 47	
3½	Corporate Stock (Public Park, One Hundred and Forty-fifth and One Hundred and Fifty-fifth Streets, Edgecombe and Bradhurst Avenues)	1929	1,365,000 00	47,775 00	49,636 32
3	Corporate Stock (Improvement, etc., of the William H. Seward Park)	1942	30,000 00	$900 00	
3	Corporate Stock (Improvement, etc., of the William H. Seward Park)	1952	100,000 00	3,000 00	
3	Corporate Stock (Improvement, etc., of the William H. Seward Park)	1953	6,300 00	189 00	4,089 00
3	Corporate Stock (Public Park in Hester Street, etc.), chap. 320, Laws of 1887	1920	31,907 53	$957 23	
3½	Corporate Stock (Public Park in Hester Street, etc.), chap. 320, Laws of 1887; chap. 293, Laws of 1895	1941	658,000 00	23,030 00	
3½	Corporate Stock (Public Park in Hester Street, etc.), secs. 48 and 169 of chap. 378, Laws of 1897	1941	1,392,000 00	48,720 00	
3	Corporate Stock (Public Park in Hester Street, etc.), secs. 48 and 169 of chap. 378, Laws of 1897	1941	125,000 00	3,750 00	
3	Corporate Stock (Public Park in Hester Street, etc.), secs. 48 and 169 of chap. 378, Laws of 1897	1942	1,000 00	30 00	76,487 23

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (Lands, etc., for a Public Park at Seventy-sixth Street and East River).....	1942	$11,541 28	$346 24	
3½	Corporate Stock (Lands, etc., for a Public Park at Seventy-sixth Street and East River).....	1953	350,000 00	12,250 00	$12,596 24
3	Corporate Stock (Constructing Improved Toilet Facilities in the City Parks, Borough of Manhattan, and Rebuilding Bank Rock Bridge in Central Park).....	1942	11,500 00	$345 00	
3	Corporate Stock (Constructing Improved Toilet Facilities in the City Parks, Borough of Manhattan, and Rebuilding Bank Rock Bridge in Central Park).....	1953	21,500 00	645 00	990 00
3	Corporate Stock (Constructing Improved Public Toilet Facilities in the City Parks, Borough of Manhattan).....	1952	3,000 00	.....	90 00
3	Corporate Stock (Construction and Equipment of Public Comfort Stations in the Borough of Manhattan).....	1942	10,000 00	$300 00	
3	Corporate Stock (Construction and Equipment of Public Comfort Stations in the Borough of Manhattan).....	1953	16,000 00	480 00	
3½	Corporate Stock (Construction and Equipment of Public Comfort Stations in the Borough of Manhattan).....	1953	50,000 00	1,750 00	
3½	Corporate Stock (Construction and Equipment of Public Comfort Stations in the Borough of Manhattan).....	1954	100,000 00	3,500 00	6,030 00
3	Corporate Stock (Construction of Public Comfort Stations in the Borough of Brooklyn).....	1942	60,000 00	$1,800 00	
3	Corporate Stock (Construction of Public Comfort Stations in the Borough of Brooklyn).....	1953	68,000 00	2,040 00	3,840 00
3	Corporate Stock (Construction of Spuyten Duyvil Parkway).....	1923	65,000 00	$1,950 00	
3	Corporate Stock (Construction of Spuyten Duyvil Parkway).....	1941	30,000 00	900 00	2,850 00
3½	Corporate Stock (Extension of Riverside Drive, etc.).....	1928	500,000 00	$17,500 00	
3½	Corporate Stock (Extension of Riverside Drive, etc.).....	1929	100,000 00	3,500 00	
3	Corporate Stock (Extension of Riverside Drive, etc.).....	1941	170,000 00	5,100 00	
3	Corporate Stock (Extension of Riverside Drive, etc.).....	1942	50,000 00	1,500 00	
3	Corporate Stock (Extension of Riverside Drive, etc.).....	1952	18,703 16	561 09	
3	Corporate Stock (Extension of Riverside Drive, etc.).....	1953	36,000 00	1,080 00	
3½	Corporate Stock (Extension of Riverside Drive, etc.).....	1953	50,000 00	1,750 00	
3½	Corporate Stock (Extension of Riverside Drive, etc.).....	1954	750,000 00	26,250 00	57,241 09
3	Corporate Stock (Improvement of Crotona Park in which is located a Public Building).....	1928	30,000 00	.....	900 00
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), chap. 510, Laws of 1897.....	1929	63,000 00	$1,890 00	
3½	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), chap. 432, Laws of 1900.....	1940	$100,000 00	$3,500 00	
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), chap. 432, Laws of 1900.....	1941	75,000 00	2,250 00	
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), chap. 432, Laws of 1900.....	1942	125,000 00	3,750 00	
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), sec. 47.....	1951	25,000 00	750 00	
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), sec. 47.....	1952	125,100 00	3,753 00	
3	Corporate Stock (Improvement in Bronx Park, Zoological Garden Society), sec. 47.....	1952	49,900 00	1,746 50	
3½	Corporate Stock (Improvement of that portion of Bronx Park allotted to and set apart for the New York Zoological Society), sec. 47.....	1953	100,000 00	3,500 00	
3½	Corporate Stock (Improvement of that portion of Bronx Park alloted to and set apart for the New York Zoological Society), sec. 47.....	1954	100,000 00	3,500 00	$24,639 50
3	Corporate Stock (Laying Asphalt Walks in Central Park).....	1940	2,000 00	.....	60 00
3	Corporate Stock (Awards, etc., Acquiring Title to Lands Required for Public Purposes)...	1942	5,000 00	$150 00	
3	Corporate Stock (Awards, etc., Acquiring Title to Lands Required for Public Purposes)...	1952	1,000 00	30 00	
3	Corporate Stock (Awards, etc., Acquiring Title to Lands Required for Public Purposes)...	1953	4,000 00	120 00	300 00
3	Corporate Stock (Skate and Golf House, Van Cortlandt Park).....	1940	20,000 00	.....	600 00
3	Corporate Stock (Entrance to Central Park at Sixty-sixth street).....	1940	8,200 00	.....	246 00
3	Corporate Stock (Improvement of Central Park).....	1941	7,882 50	.....	236 47
3	Corporate Stock (For the Improvement of Prospect Park).....	1942	10,000 00	.....	300 00
3	Corporate Stock (Improvement of Parks, Borough of Richmond).....	1941	5,000 00	150 00	
3	Corporate Stock (Improvement of Parks, Borough of Richmond).....	1942	31,500 00	945 00	
3	Corporate Stock (Improvement of Parks, Borough of Richmond).....	1952	1,000 00	30 00	
3	Corporate Stock (Improvement of Parks, Borough of Richmond).....	1953	4,095 76	122 87	1,247 87
3	Corporate Stock (Redemption of Assessment Bonds, Improvement of Park Avenue above One Hundred and Sixth Street).....	1929	210,800 73	6,324 02	
3½	Corporate Stock (Redemption of Assessment Bonds, Improvement of Park Avenue above One Hundred and Sixth Street).....	1929	458,000 00	16,030 00	22,354 02

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3½	Corporate Stock (For the Payment of Assessment Imposed upon the Mayor, Aldermen and Commonalty of The City of New York prior to January 1, 1868, and upon The City of New York, subsequent to January 1, 1868)	1954	$1,000,000 00	.....	$35,000 00
3	Corporate Stock (For the Construction of Sewers in the Borough of Brooklyn)	1953	1,000 00	$30 00	
3½	Corporate Stock (For the Construction of Sewers in the Borough of Brooklyn)	1953	100,000 00	3,300 00	
3½	Corporate Stock (For the Construction of Sewers in the Borough of Brooklyn)	1954	100,000 00	3,500 00	7,030 00
3	Corporate Stock (For the Construction of the Webster Avenue Relief Sewer in The Borough of the Bronx)	1953	2,500 00	.....	75 00
3	Corporate Stock (Widening Roadway of Fifty-ninth street, from Fifth to Eighth avenue)	1941	5,000 00	$150 00	
3	Corporate Stock (Widening Roadway of Fifty-ninth street, from Fifth to Eighth avenue)	1942	40,000 00	1,200 00	1,350 00
3½	Corporate Stock (Paving Jerome Avenue)	1928	69,000 00	$2,100 00	
3	Corporate Stock (Paving Jerome Avenue)	1928	5,000 00	150 00	
3	Corporate Stock (Paving Jerome Avenue)	1952	1,000 00	30 00	
3	Corporate Stock (Paving Jerome Avenue)	1953	6,000 00	180 00	2,460 00
3	Corporate Stock (Repaving Streets and Avenues), chap. 87, Laws of 1897	1928	310,000 00	$0,300 00	
3½	Corporate Stock (Repaving Streets and Avenues), chap. 87, Laws of 1897	1928	250,000 00	8,750 00	
3½	Corporate Stock (Repaving Streets and Avenues), chap. 35, Laws of 1892	1929	300,000 00	10,500 00	
3½	Corporate Stock (Repaving Streets and Avenues), chap. 475, Laws of 1895	1940	450,000 00	15,750 00	44,300 00
3½	Corporate Stock (for the Repaving of Streets), sec. 47	1953	750,000 00	$26,250 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 47	1954	150,000 00	5,250 00	
3	Corporate Stock (for the Repaving of Streets), sec. 48	1953	32,500 00	975 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 48	1940	2,000,000 00	70,000 00	
3	Corporate Stock (for the Repaving of Streets), sec. 48	1941	24,000 00	720 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 48	1941	2,000,000 00	70,000 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 169	1942	2,000,000 00	70,000 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 169	1952	1,500,000 00	52,500 00	
3	Corporate Stock (for the Repaving of Streets), sec. 169	1952	25,000 00	750 00	
3	Corporate Stock (for the Repaving of Streets), sec. 169	1953	610,000 00	18,300 00	
3½	Corporate Stock (for the Repaving of Streets), sec. 169	1954	3,000,000 00	105,000 00	419,745 00
3	Corporate Stock (Grading and Paving Grand Street, in the Borough of Brooklyn)	1940	$10,200 00	.....	$306 00
3	Corporate Stock (for the Payment of the Cost of Grading, Curbing and Paving of Bedford Avenue, from Eastern Parkway to Flatbush Avenue, in the Borough of Brooklyn)	1924	21,000 00	.....	630 00
3½	Corporate Stock (Construction of Melrose Avenue Viaduct)	1928	140,000 00	$4,900 00	
3	Corporate Stock (Construction of Melrose Avenue Viaduct)	1941	20,000 00	600 00	
3	Corporate Stock (Construction of Melrose Avenue Viaduct)	1952	5,000 00	150 00	
3	Corporate Stock (Construction of Melrose Avenue Viaduct)	1953	57,000 00	1,710 00	7,360 00
3	Corporate Stock (Lands, etc., Melrose Avenue Viaduct)	1952	116,975 79	.....	3,509 27
3	Corporate Stock (Acquiring Lands, etc., for the New Roadway and Route of the Spuyten Duyvil and Port Morris Railroad Company)	1953	551,025 60	.....	16,530 75
3	Corporate Stock (to Replenish Fund for Street and Park Openings), chap. 684, Laws of 1895	1914	2,696,548 50	$80,896 46	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1929	74,619 45	2,238 58	
3½	Corporate Stock (to Replenish Fund for Street and Park Openings)	1929	1,849,107 32	64,718 76	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1940	2,598,211 10	77,946 34	
3½	Corporate Stock (to Replenish Fund for Street and Park Openings)	1941	1,112,125 90	38,924 41	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1941	538,699 69	16,160 99	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1942	2,265,577 92	67,967 34	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1952	4,193,187 99	125,795 64	
3½	Corporate Stock (to Replenish Fund for Street and Park Openings)	1952	1,000,000 00	35,000 00	
3	Corporate Stock (to Replenish Fund for Street and Park Openings)	1953	826,226 34	24,786 79	
3½	Corporate Stock (to Replenish Fund for Street and Park Openings)	1953	2,010,000 00	70,350 00	
3½	Corporate Stock (to Replenish Fund for Street and Park Openings)	1954	600,000 00	21,000 00	625,785 31
3	Corporate Stock (Board of Health, Condemnation of Buildings)	1919	44,286 94	.....	1,328 61
3	Corporate Stock (Purposes of the Department of Health)	1941	25,000 00	$750 00	
3	Corporate Stock (Purposes of the Department of Health)	1942	3,000 00	90 00	840 00
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546	1929	100,000 00	$3,000 00	
3½	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546	1929	300,000 00	10,500 00	

Rate Per Cent	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546.....	1949	$62,668 08	$1,880 04	
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546.....	1942	81,431 25	2,442 94	
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546.....	1952	3,612 00	108 36	
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), sec. 546.....	1942	120,000 00	3,600 00	
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), secs. 47 and 546.....	1952	351,861 75	10,555 85	
3	Corporate Stock (New Stock or Plant, Department of Street Cleaning), secs. 47 and 546.....	1953	150,000 00	4,770 00	
3½	Corporate Stock (New Stock or Plant, Department of Street Cleaning), secs. 47 and 546.....	1953	100,000 00	3,500 00	
3½	Corporate Stock (New Stock or Plant, Department of Street Cleaning), secs. 47 and 546.....	1954	200,000 00	7,000 00	$47,357 19
3½	Corporate Stock (Public Library, Astor, Tilden and Lenox, etc.), chap. 550, Laws of 1897...	1920	500,000 00	$17,500 00	
3½	Corporate Stock (Public Library, Astor, Tilden and Lenox, etc.), chap. 627, Laws of 1900...	1942	500,000 00	17,500 00	
3½	Corporate Stock (Public Library, Astor, Tilden and Lenox, etc.), chap. 627, Laws of 1900...	1952	600,000 00	21,000 00	
3½	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.), chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of April 24, 1905 (L).....	1954	1,000,000 00	35,000 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.), chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of February 15, 1906.....	1955	500,000 00	20,000 00	
3	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York..	1956	150,000 00	4,500 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of February 1, 1907.....	1956	250,000 00	10,000 00	
3	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York..	1957	115,000 00	3,450 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of June 28, 1907 (L2).....	1957	472,400 00	18,896 00	
4½	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.), chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of February 14, 1908 (L3)....	1957	$1,000,000 00	$45,000 00	
3	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York...	1958	430,000 00	12,900 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of November 23, 1908 (L4)	1958	250,000 00	10,000 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of March 2, 1909 (L5).....	1958	250,000 00	10,000 00	
4	Corporate Stock (Public Library, Astor, Tilden, Lenox, etc.) chap. 627, Laws of 1900, Greater New York Charter as amended and other Acts of the Legislature of the State of New York, issue of June 8, 1909 (L6).....	1959	800,000 00	32,000 00	$257,746 00
3	Corporate Stock (Enlarging Public Library Building and the site therefor, located on Montague Street, in the Borough of Brooklyn).. ...	1952	40,000 00	$1,200 00	
3	Corporate Stock (Enlarging Public Library Building and the site therefor, located on Montague Street, in the Borough of Brooklyn).....	1953	30,000 00	900 00	2,100 00
3	Corporate Stock (Sites, etc., Carnegie Libraries)	1942	250,000 00	$7,500 00	
3	Corporate Stock (Sites, etc., Carnegie Libraries)	1952	202,154 90	6,064 65	
3	Corporate Stock (Sites, etc., Carnegie Libraries)	1953	173,500 00	5,205 00	
3½	Corporate Stock (Sites, etc., Carnegie Libraries)	1953	90,000 00	3,150 00	
3½	Corporate Stock (Sites, etc., Carnegie Libraries)	1954	250,000 00	8,750 00	30,669 65
3	Corporate Stock (Extension of Broadway and Kingsbridge Road).....	1919	40,000 00	$1,200 00	
3	Corporate Stock (Extension of Broadway and Kingsbridge Road).....	1952	11,000 00	330 00	
3	Corporate Stock (Extension of Broadway and Kingsbridge Road).....	1953	74 34	2 23	1,532 23
3	Corporate Stock (For Making Changes in Sewers in Connection with the Atlantic Avenue Improvement, in the Borough of Brooklyn).....	1953	38,500 00	.....	1,155 00
3½	Corporate Stock (Main Relief Sewers Borough of Brooklyn)...	1942	167,000 00	.....	5,845 00
3	Corporate Stock (Steel Beam Structure on Brook Avenue).	1921	9,000 00	$270 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (Steel Beam Structure on Brook Avenue)	1940	$1,000 00	$30 00	$300 00
3	Corporate Stock (Improvement of Atlantic Avenue, Borough of Brooklyn)	1942	250,000 00	$7,500 00	
3	Corporate Stock (Improvement of Atlantic Avenue, Borough of Brooklyn)	1952	680,000 00	20,400 00	
3	Corporate Stock (Improvement of Atlantic Avenue, Borough of Brooklyn)	1953	70,000 00	2,100 00	
3½	Corporate Stock (Improvement of Atlantic Avenue, Borough of Brooklyn)	1953	150,000 00	5,250 00	
3½	Corporate Stock (Improvement of Atlantic Avenue, Borough of Brooklyn)	1954	100,000 00	3,500 00	38,750 00
3	Corporate Stock (New Hall of Records)	1929	150,000 00	$4,500 00	
3½	Corporate Stock (New Hall of Records)	1929	500,000 00	17,500 00	
3½	Corporate Stock (New Hall of Records)	1930	250,000 00	8,750 00	
3½	Corporate Stock (New Hall of Records)	1940	2,810,000 00	98,350 00	
3½	Corporate Stock (New Hall of Records)	1952	500,000 00	17,500 00	
3½	Corporate Stock (New Hall of Records)	1954	700,000 00	24,500 00	171,100 00
3	Corporate Stock (Repairs, etc., to County Court-house, Borough of Manhattan)	1952	28,537 15	$856 11	
3	Corporate Stock (Repairs, etc., to County Court-house, Borough of Manhattan)	1953	2,500 00	75 00	931 11
3	Corporate Stock (For Making Alterations and Repairs to the Queens County Court-house Building at Long Island, Borough of Queens)	1953	5,000 00	.....	150 00
3	Corporate Stock (Extension, etc., Hall of Records, County of Kings)	1941	20,000 00	$600 00	
3½	Corporate Stock (Extension, etc., Hall of Records, County of Kings)	1952	400,000 00	14,000 00	14,600 00
3	Corporate Stock (Improvement of Wallabout Basin, Borough of Brooklyn)	1929	100,000 00	.....	3,000 00
3½	Corporate Stock (Public Driveway along the Harlem River)	1940	300,000 00	.....	10,500 00
3	Corporate Stock (Viaduct on Riverside Drive over West Ninety-sixth Street)	1940	85,000 00	.....	2,550 00
3	Corporate Stock (Soldiers and Sailors' Memorial Arch)	1929	5,000 00	$150 00	
3	Corporate Stock (Soldiers and Sailors' Memorial Arch)	1940	2,000 00	60 00	
3½	Corporate Stock (Soldiers and Sailors' Memorial Arch)	1940	200,000 00	7,000 00	
3½	Corporate Stock (Soldiers and Sailors' Memorial Arch)	1942	43,000 00	1,505 00	8,715 00
3	Corporate Stock (For Making a Map or Plan of Ward One and Parts of Wards Two, Three, Four and Five of the Borough of Richmond)	1953	20,000 00	.....	600 00
3	Corporate Stock (For Making Maps or Plans of a Portion of the Second, Third and Fourth Wards, Borough of Queens)	1953	42,500 00	.....	1,275 00
3	Corporate Stock (Monument of Edward B. Fowler in Fort Greene Park, Borough of Brooklyn)	1952	$1,550 00	.....	$46 50
3	Corporate Stock (for Police Department Purposes)	1940	136,389 71	$4,091 69	
3	Corporate Stock (for Police Department Purposes)	1941	375,000 00	11,250 00	
3½	Corporate Stock (for Police Department Purposes), section 47, Laws of 1897	1954	200,000 00	7,000 00	22,341 69
3	Corporate Stock (for Fire Department Purposes), chap. 76, Laws of 1894	1941	300,000 00	$9,000 00	
3½	Corporate Stock (for Fire Department Purposes), chap. 76, Laws of 1894	1929	300,000 00	10,500 00	
3	Corporate Stock (for Fire Department Purposes), sections 48 and 169 of chap. 378, Laws of 1897	1941	500,000 00	15,000 00	
3½	Corporate Stock (for Fire Department Purposes), sections 48 and 169 of chap. 378, Laws of 1897	1941	241,000 00	8,435 00	
3	Corporate Stock (for Fire Department Purposes), section 47, Laws of 1894	1953	161,000 00	4,830 00	
3½	Corporate Stock (for Fire Department Purposes), section 47, Laws of 1894	1953	50,000 00	1,750 00	
3	Corporate Stock (for Fire Department Purposes), section 47, Laws of 1894	1954	12,500 00	375 00	
3½	Corporate Stock (for Fire Department Purposes), section 47, Laws of 1894	1954	250,000 00	8,750 00	558,640 00
3	Corporate Stock (Constructing a New Fire Boat for the use of the Fire Department of The City of New York)	1953	8,500 00	.....	255 00
3	Corporate Stock (for Placing the Fire Boat "Seth Low" in Condition for Service)	1953	22,500 00	.....	675 00
3	Corporate Stock (Completing the Establishment and Equipment of a Fire Alarm Telegraph System in the Borough of Richmond)	1953	2,000 00	.....	60 00
3	Corporate Stock (for the Topographical Bureau of the Borough of The Bronx)	1953	1,000 00	$30 00	
3	Corporate Stock (for the Topographical Bureau of the Borough of The Bronx)	1954	1,000 00	30 00	60 00
3	Corporate Stock (for Rebuilding a Retaining Wall on the Easterly Side of Edgecombe Avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth Streets, Borough of Manhattan)	1953	5,000 00	.....	150 00
3	Corporate Stock (for Various Municipal Purposes)	1924	13,500 00	$405 00	
3	Corporate Stock (for Various Municipal Purposes)	1925	104,234 87	3,127 05	
3	Corporate Stock (for Various Municipal Purposes)	1926	186,734 77	5,602 04	
4	Corporate Stock (for Various Municipal Purposes), issue of July 25, 1906	1936	10,500,000 00	420,000 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (for Various Municipal Purposes)	1954	$2,070,699 30	$62,120 98	
3½	Corporate Stock (for Various Municipal Purposes), issue of November 23, 1904 (V)	1954	18,500,000 00	647,500 00	
3½	Corporate Stock (for Various Municipal Purposes), issue of April 24, 1905 (V2)	1954	10,000,000 00	500,000 00	
3	Corporate Stock (for Various Municipal Purposes)	1955	7,748,704 69	232,461 14	
3½	Corporate Stock (for Various Municipal Purposes), issue of November 23, 1905 (V3)	1955	12,500,000 00	437,500 00	
4	Corporate Stock (for Various Municipal Purposes), issue of February 15, 1906	1955	17,500,000 00	700,000 00	
3	Corporate Stock (for Various Municipal Purposes)	1956	1,319,294 57	39,578 84	
4	Corporate Stock (for Various Municipal Purposes), issue of November 2, 1906	1956	4,000,000 00	160,000 00	
4	Corporate Stock (for Various Municipal Purposes), issue of December 14, 1906	1956	7,000,000 00	280,000 00	
4	Corporate Stock (for Various Municipal Purposes), issue of February 1, 1907	1956	23,000,000 00	920,000 00	
3	Corporate Stock (for Various Municipal Purposes)	1957	2,555,824 02	76,674 72	
4	Corporate Stock (for Various Municipal Purposes), issue of June 28, 1907 (V4)	1957	360,449 00	14,417 60	
4	Corporate Stock (for Various Municipal Purposes), issue of August 12, 1907 (V5)	1957	9,000,000 00	360,000 00	
4½	Corporate Stock (for Various Municipal Purposes), issue of September 10, 1907 (V6)	1957	26,000,000 00	1,170,000 00	
4½	Corporate Stock (for Various Municipal Purposes), issue of February 14, 1908 (V7)	1957	37,500,000 00	1,687,500 00	
3	Corporate Stock (for Various Municipal Purposes)	1958	6,267,574 59	188,027 24	
4	Corporate Stock (for Various Municipal Purposes), issue of November 23, 1908 (V8)	1958	7,000,000 00	280,000 00	
4	Corporate Stock (for Various Municipal Purposes), issue of March 2, 1909 (V9)	1958	7,000,000 00	280,000 00	
4	Corporate Stock (for Various Municipal Purposes), issue of June 8, 1909 (V10)	1959	24,000,000 00	960,000 00	$29,484,914 61
4	Corporate Stock (for construction of the Rapid Transit Railroad), issue of August 12, 1907 (R3)	1957	418,000 00	$16,720 00	
4½	Corporate Stock (for construction of the Rapid Transit Railroad), issue of September 10, 1907 (R4)	1957	856,000 00	38,520 00	
4½	Corporate Stock (for construction of the Rapid Transit Railroad), issue February 14, 1908 (R5)	1957	2,115,602 80	95,202 13	
4	Corporate Stock (for construction of the Rapid Transit Railroad)	1958	480,000 00	19,200 00	
4	Corporate Stock (for construction of the Rapid Transit Railroad), issue of November 23, 1908 (R6)	1958	671,500 00	26,860 00	
4	Corporate Stock (for construction of the Rapid Transit Railroad), issue of March 2, 1909 (R7)	1958	$667,000 00	$27,880 00	
4	Corporate Stock (for construction of the Rapid Transit Railroad), issue of June 8, 1909 (R8)	1959	$55,000 00	33,520 00	$257,902 13
	Estimated amount to be included in the Budget for 1910 to provide for the payment of Interest on Bonds issued, the proceeds of which were expended for acquiring easements on the Manhattan-Bronx Division of the Rapid Transit Railroad	....	.....	.....	70,742 56
3	Corporate Stock (for the New Aqueduct)	1917	300,000 00	$9,000 00	
3½	Corporate Stock (for the New Aqueduct)	1917	2,000,000 00	70,000 00	
3½	Corporate Stock (for the New Aqueduct)	1918	350,000 00	12,250 00	
3	Corporate Stock (for the New Aqueduct)	1910	200,000 00	6,000 00	
3	Corporate Stock (for the New Aqueduct)	1918	450,000 00	13,500 00	
3½	Corporate Stock (for the New Aqueduct)	1919	2,650,000 00	92,750 00	
3	Corporate Stock (for the New Aqueduct)	1919	300,000 00	9,000 00	
3	Corporate Stock (for the New Aqueduct)	1920	90,000 00	2,700 00	
3½	Corporate Stock (for the New Aqueduct)	1920	2,200,000 00	77,000 00	
3½	Corporate Stock (for the New Aqueduct)	1921	500,000 00	17,500 00	
3	Corporate Stock (for the New Aqueduct)	1922	200,000 00	6,000 00	
3½	Corporate Stock (for the New Aqueduct)	1952	1,500,000 00	52,500 00	
3	Corporate Stock (for the New Aqueduct)	1953	1,530,000 00	45,900 00	
3	Corporate Stock (for the New Aqueduct)	1954	70,000 00	2,100 00	
3½	Corporate Stock (for the New Aqueduct)	1953	350,000 00	12,250 00	
3½	Corporate Stock (for the New Aqueduct, April 1)	1922	500,000 00	17,500 00	
3½	Corporate Stock (for the New Aqueduct, April 1)	1954	1,000,000 00	35,000 00	480,950 00
3	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1917	200,000 00	$6,000 00	
3½	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1917	350,000 00	12,250 00	
3	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1919	100,000 00	3,000 00	
3½	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1919	350,000 00	12,250 00	
3½	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1920	500,000 00	17,500 00	
3	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1921	500,000 00	15,000 00	
3	Corporate Stock (Sanitary Protection of the Sources of the Water Supply)	1952	200,000 00	6,000 00	72,000 00
3½	Corporate Stock (for Laying Water-mains)	1917	300,000 00	$10,500 00	
3	Corporate Stock (for Laying Water-mains)	1917	50,000 00	1,500 00	12,000 00

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3	Corporate Stock (to provide for an Additional Supply of Water), sec. 141.	1911	$23,000 00	$690 00	
3½	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1919	250,000 00	8,750 00	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1920	260,000 00	7,800 00	
3	Corporate Stock (to provide for an Additional Supply of Water, secs. 169 and 178.....	1921	445,000 00	13,350 00	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1922	945,501 74	28,365 05	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1952	544,000 00	16,320 00	
3½	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1952	250,000 00	8,750 00	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1953	680,408 29	20,414 95	
3½	Corporate Stock (to provide for an Additional Supply of Water), secs. 169 and 178.....	1953	650,000 00	22,750 00	
3½	Corporate Stock (to provide for an Additional Supply of Water), secs. 166 and 178.....	1954	1,000,000 00	35,000 00	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 47, 169 and 178.....	1953	482,500 00	14,475 00	
3	Corporate Stock (to provide for an Additional Supply of Water), secs. 47, 169 and 178.....	1954	15,000 00	450 00	
3½	Corporate Stock (to provide for an Additional Supply of Water), secs. 47, 169 and 178.....	1954	500,000 00	17,500 00	$194,615 00
3	Corporate Stock Laying Additional Watermains, Machinery, etc.).....	1918	106,343 00	$3,190 29	
3½	Corporate Stock (Laying Additional Watermains, Machinery, etc.).....	1920	350,000 00	12,250 00	15,440 29
3½	Corporate Stock (Payment of Award for Plant, etc., of the Long Island Water Supply Company.....	1918	570,000 00	.....	19,950 00
3	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other acts of the Legislature of the State of New York.)....	1924	55,000 00	$1,650 00	
3	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1925	695,000 00	20,850 00	
3	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1926	85,000 00	2,550 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of NewYork),issue of December 14, 1906	1926	300,000 00	12,000 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of February 1, 1907.....	1926	$511,000 00	$20,440 00	
3	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1954	41,000 00	1,230 00	
3½	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of November 23, 1904 W)	1954	4,250,000 00	148,750 00	
3½	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of April 24, 1925 (W2)	1954	2,500 000 00	87,500 00	
3	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1955	1,585,000 00	47,550 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of February 15, 1906.....	1955	2,000,000 00	80,000 00	
3	Corporate Stock (To provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1956	1,653,000 00	49,590 00	
4	Corporate Stock (To provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of November 2, 1906.....	1956	500,000 00	20,000 00	
4	Corporate Stock (To provide for the supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of December 14, 1906.....	1956	1,000,000 00	40,000 00	
4	Corporate Stock (To provide for the supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of February 1, 1907	1956	2,750,000 00	110,000 00	
3	Corporate Stock (To provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1957	51,500 00	1,545 00	
4	Corporate Stock (To provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York). Issue of June 28, 1907 (W3).....	1957	1,100,000 00	44,000 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York, issue of August 12, 1907 (W4)...	1957	$2,500,000 00	$100,000 00	
4½	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of September 15, 1907 (W5)	1957	7,000,000 00	315,000 00	
4½	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of February 14, 1908 (W6)...	1957	9,000,000 00	377,000 00	
3	Corporate Stock (to provide for the supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York).....	1958	1,601,000 00	48,030 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of November 25, 1908 (W7)	1958	4,000,000 00	140,000 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of March 2, 1909 (W8	1958	2,000,000 00	80,000 00	
4	Corporate Stock (to provide for the Supply of Water, Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York), issue of June 8, 1909 (W9).....	1959	15,000,000 00	400,000 00	2,005,685 00
3	Assessment Bonds (section 181).....	On or after 1903	550,000 00	$16,500 00	
3	Assessment Bonds (section 181), November 1.....	On or after 1904	1,503,129 49	45,093 88	
3	Assessment Bonds (section 181), July 1.....	On or after 1904	500,000 00	15,000 00	
3	Assessment Bonds (section 181), November 1.....	On or after 1905	700,000 00	21,000 00	
3	Assessment Bonds (section 181).....	On or after 1907	600,000 00	18,000 00	
3	Assessment Bonds (section 181).....	On or after 1910	400,000 00	12,000 00	
3	Assessment Bonds (section 181).....	On or after 1911	320,100 00	9,603 00	
3	Assessment Bonds (section 181).....	On or after 1912	500,000 00	15,000 00	
3½	Assessment Bonds (section 184).....	1914	5,000,000 00	175,000 00	
3½	Assessment Bonds, Greater New York Charter, issue of April 24, 1905 (A)	1914	3,000,000 00	105,000 00	
3	Assessment Bonds of the City of New York, sections 181 and 183.....	On or after 1905	2,500 00	75 00	
3	Assessment Bonds of the City of New York, sections 181 and 183.....	On or after 1906	1,000 00	30 00	
3	Assessment Bonds of the City of New York, sections 181 and 183.....	On or after 1907	$10,000 00	$300 00	
3	Assessment Bonds of the City of New York, sections 181 and 183.....	On or after 1908	7,500 00	225 00	
3	Assessment Bonds of the City of New York, sections 181 and 183.....	On or after 1909	4,000 00	120 00	$432,946 88
3	Assessment Bonds (Fort Washington Ridge Road)...	On or after 1899	18,424 08	$552 72	
3	Assessment Bonds (Fort Washington Ridge Road) ..	On or after 1900	11,514 65	345 44	
3	Assessment Bonds (Fort Washington Ridge Road)...	On or after 1901	17,185 35	515 56	
3	Assessment Bonds (Fort Washington Ridge Road)...	On or after 1902	9,000 00	270 00	
3	Assessment Bonds (Fort Washington Ridge Road)...	On or after 1903	12,097 46	362 92	
3	Assessment Bonds (Fort Washington Ridge Road) ..	On or after 1904	2,600 00	78 00	
3	Assessment Bonds (Fort Washington Ridge Road) ..	On or after 1905	61,676 00	1,850 28	3,974 92
3	Assessment Bonds (Improvement of Streets and Avenues in the Borough of Brooklyn).....	On or after 1904	50,000 00	.....	1,500 00
3	Assessment Bonds (Opening, etc., Bedford Avenue)...	1926	162,734 82	.....	4,882 04
3	Assessment Bonds (Redemption of Town Improvement Bonds, Town of New Lots)	On or after Nov. 1, 1906.	20,170 80	.....	605 12
3	Gold Exempt Assessment Bonds, Street and Park Openings	On or after Nov. 1, 1906.	971,000 00	$29,130 00	
4	Gold Exempt Assessment Bonds, Street and Park Openings, issue of July 26, 1906.	1915	29,000 00	1,160 00	
4	Gold Exempt Assessment Bonds, Street and Park Openings, issue of December 14, 1906.	1916	1,000,000 00	40,000 00	
4	Gold Exempt Assessment Bonds, Street and Park Openings, issue of February 1, 1907	1910	645,000 00	25,800 00	
4½	Gold Exempt Assessment Bonds, Street and Park Openings, issue of February 14, 1908 (S1).....	1917	1,500,000 00	67,500 00	163,390 00
3	Assessment Bonds of The City of New York, Greater New York Charter	On or after Nov. 1, 1907.	650,000 00	$19,500 00	
3	Assessment Bonds of The City of New York, Greater New York Charter.....	On or after Jan. 2, 1908.	569,380 00	17,081 40	
3	Assessment Bonds of The City of New York, Greater New York Charter.....	On or after Nov. 1, 1908.	415,000 00	12,450 00	
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of December 14, 1906	1916	500,000 00	20,000 00	
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of February 1, 1907	1916	430,000 00	17,200 00	
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of June 28, 1907 (A2).....	1917	180,000 00	7,360 00	

Rate Per Cent.	Title of Bond and Stocks.	Maturity.	Principal.	Interest.	Total Interest.	
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of August 12, 1907 (A3)	1917	$102,020 00	$0,504 80		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of September 15, 1907 (A4)	1917	5,000,000	225,000 00		
4½	Assessment Bonds of The City of New York, Greater New York Charter, issue of February 14, 1908 (A5)	1917	1,500,000 00	67,500 00		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of November 23, 1908 (A6)	1918	[illegible]	27,000 00		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of June 8, 1910 (A7)	1919	2,[illegible]	80,[illegible] 00		$402,[illegible] 80
3½	Special Revenue Bonds of 1907, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1917	200,000 00	$3,080 50		
3¾	Special Revenue Bonds of 1907, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1917	$46,000 00	0,420 04		
3½	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1919	350,000 00	2,057 82		
3½	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1919	1,705,333 00	30,633 48		
3¾	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1919	371,000 00	3,031 04	55,443 54	$19,788,776 53

THE CITY OF NEW YORK, AS CONSTITUTED PRIOR TO JANUARY 1, 1898.

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
	CITY OF NEW YORK.				
3	Additional Croton Water Stock	1914	$200,000 00	$6,000 00	
3½	Additional Croton Water Stock (Consolidated Stock)	1911	400,000 00	14,000 00	$20,000 00
3	Additional Water Stock	1912	250,000 00	87,500 00	
3	Additional Water Stock	1913 1933	100,000 00	3,000 00	
3½	Additional Water Stock	1913 1933	300,000 00	10,500 00	
3½	Additional Water Stock (Consolidated Stock)	1915	3,030,500 00	100,007 50	
3½	Additional Water Stock (Consolidated Stock)	1919	1,750,000 00	61,250 00	188,317 50
3	Additional Water Stock for the Sanitary Protection of the Water Supply	1914	370,500 00	$11,205 00	
3½	Additional Water stock for the Sanitary Protection of the Water Supply (Consolidated Stock)	1912	175,000 00	6,125 00	17,420 00
3	Armory Bonds	1914	170,500 00	.....	5,115 00
6	Assessment Fund Stock	1918	535,000 00	.....	32,130 00
4	Consolidated Stock-City	1910	2,800,000 00	.....	112,000 00
3	Consolidated Stock (City (Harlem River Bridge)	1910	178,300 00	.....	5,349 00
3	Consolidated Stock (Police Department Bonds)	1925	60,549 65	$1,816 49	
3½	Consolidated Stock (Police Department Bonds)	1916	100,000 00	3,500 00	
3½	Consolidated Stock (Police Department Bonds)	1918	20,000 00	700 00	6,016 49
3	Consolidated Stock (Fire Hydrant Stock)	1925	50,000 00	$1,500 00	
3½	Consolidated Stock (Fire Hydrant Stock)	1925	50,000 00	1,750 00	3,250 00
3	Consolidated Stock Washington Bridge Park)	1920	640,000 00	.....	19,200 00
3	Consolidated Stock (Repaving Avenue A)	1920	100,000 00	.....	3,000 00
3	Consolidated Stock (West Wing American Museum of Natural History)	1920	250,000 00	$7,500 00	
3½	Consolidated Stock (West Wing American Museum of Natural History)	1917	250,000 00	8,750 00	16,250 00
3	Consolidated Stock (Jerome Avenue Approach to One Hundred and Fifty-fifth Street Bridge)	1920	201,181 32	.....	6,035 44
3	Consolidated Stock (Repaving Roads, Streets and Avenues, Twenty-third and Twenty-fourth Wards)	1920	85,000 00	$2,550 00	
3½	Consolidated Stock (Repaving Roads, Streets and Avenues, Twenty-third and Twenty-fourth Wards)	1917	100,000 00	3,500 00	6,050 00
3	Consolidated Stock (Construction and Improvement of Parkways)	1914	65,000 00	.....	1,950 00
3	Consolidated Stock (Cathedral Parkway, etc.)	1914	195,000 00	.....	5,850 00
3	Consolidated Stock (College of The City of New York)	1914	47,000 00	$1,410 00	
3½	Consolidated Stock (College of The City of New York)	1914	45,650 00	1,597 75	
3½	Consolidated Stock (College of The City of New York)	1915	158,600 00	5,551 00	8,558 75
3½	Consolidated Stock (New East River Bridge)	1917	100,000 00	$3,500 00	
3½	Consolidated Stock (New East River Bridge)	1918	300,000 00	10,500 00	14,000 00
3½	Consolidated Stock (Awards, etc., Change of Grade)	1910	300,000 00	$10,500 00	
3½	Consolidated Stock (Awards, etc., Change of Grade)	1911	85,000 00	2,975 00	13,475 00
3½	Consolidated Stock (Extension, Metropolitan Museum of Art)	1916	200,000 00	.....	7,000 00
3½	Consolidated Stock (St. John's Cemetery Park)	1916	554,565 04	.....	19,409 78
3½	Consolidated Stock (Improvement Public Parks, etc., New York City)	1917	123,000 00	$4,305 00	
3½	Consolidated Stock (Improvement Public Parks, etc., New York City)	1918	175,000 00	6,125 00	10,430 00
3½	Consolidated Stock (State Taxes for Support of Insane)	1915	177,000 00	$6,195 00	
3½	Consolidated Stock (State Taxes for Support of Insane)	1916	1,200,000 00	42,000 00	48,195 00
3½	Consolidated Stock (Redemption of Bonds Maturing in 1896)	1922	7,000,000 00	.....	245,000 00

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.	
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of August 12, 1907 (A3)	1917	$102,020 00	$6,504 80		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of September 15, 1907 (A4)	1917	5,000,000 00	225,000 00		
4½	Assessment Bonds of The City of New York, Greater New York Charter, issue of February 14, 1908 (A5)	1917	1,500,000 00	67,500 00		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of November 23, 1908 (A6)	1918	500,000 00	20,000 00		
4	Assessment Bonds of The City of New York, Greater New York Charter, issue of June 8, 1909 (A7)	1919	2,000,000 00	80,000 00		$492,796 20
3½	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1910	200,000 00	$3,680 56		
3¾	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1910	846,620 00	6,420 64		
3½	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1910	350,000 00	2,657 82		
3½	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1910	1,765,550 00	39,633 48		
3¾	Special Revenue Bonds of 1909, Greater New York Charter as amended, and other acts of the Legislature of the State of New York	1910	371,000 00	3,051 04	55,443 54	$19,788,776 53

THE CITY OF NEW YORK, AS CONSTITUTED PRIOR TO JANUARY 1, 1898.

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
	CITY OF NEW YORK.				
3	Additional Croton Water Stock	1914	$200,000 00	$6,000 00	
3½	Additional Croton Water Stock (Consolidated Stock)	1911	400,000 00	14,000 00	$20,000 00
3	Additional Water Stock	1912	250,000 00	$7,500 00	
3	Additional Water Stock	1913-1933	100,000 00	3,000 00	
3½	Additional Water Stock	1913-1933	300,000 00	10,500 00	
3½	Additional Water Stock (Consolidated Stock)	1915	3,030,500 00	106,067 50	
3½	Additional Water Stock (Consolidated Stock)	1916	1,750,000 00	61,250 00	188,317 50
3	Additional Water Stock for the Sanitary Protection of the Water Supply	1914	376,500 00	$11,295 00	
3½	Additional Water Stock for the Sanitary Protection of the Water Supply (Consolidated Stock)	1912	175,000 00	6,125 00	17,420 00
3	Armory Bonds	1914	170,500 00	.....	5,115 00
6	Assessment Fund Stock	1910	535,600 00	.....	32,136 00
4	Consolidated Stock—City	1910	2,800,000 00	.....	112,000 00
3	Consolidated Stock City (Harlem River Bridge)	1910	178,300 00	...	5,349 00
3	Consolidated Stock (Police Department Bonds)	1925	60,540 65	$1,816 40	
3½	Consolidated Stock (Police Department Bonds)	1916	100,000 00	3,500 00	
3½	Consolidated Stock (Police Department Bonds)	1918	20,000 00	700 00	6,016 40
3	Consolidated Stock (Fire Hydrant Stock)	1925	50,000 00	$1,500 00	
3½	Consolidated Stock (Fire Hydrant Stock)	1925	50,000 00	1,750 00	3,250 00
3	Consolidated Stock (Washington Bridge Park)	1920	640,000 00	.....	19,200 00
3	Consolidated Stock (Repaving Avenue A)	1920	100,000 00	.....	3,000 00
3	Consolidated Stock (West Wing American Museum of Natural History)	1920	250,000 00	$7,500 00	
3½	Consolidated Stock (West Wing American Museum of Natural History)	1917	250,000 00	8,750 00	16,250 00
3	Consolidated Stock (Jerome Avenue Approach to One Hundred and Fifty-fifth Street Bridge)	1920	201,181 32	.....	6,035 44
3	Consolidated Stock (Repaving Roads, Streets and Avenues, Twenty-third and Twenty-fourth Wards)	1920	85,000 00	$2,550 00	
3½	Consolidated Stock (Repaving Roads, Streets and Avenues, Twenty-third and Twenty-fourth Wards)	1917	100,000 00	3,500 00	6,050 00
3	Consolidated Stock (Construction and Improvement of Parkways)	1914	65,000 00	.....	1,950 00
3	Consolidated Stock (Cathedral Parkway, etc.)	1914	195,000 00	.....	5,850 00
3	Consolidated Stock (College of The City of New York)	1914	47,000 00	$1,410 00	
3½	Consolidated Stock (College of The City of New York)	1914	45,650 00	1,597 75	
3½	Consolidated Stock (College of The City of New York)	1915	158,600 00	5,551 00	8,558 75
3½	Consolidated Stock (New East River Bridge)	1917	100,000 00	$3,500 00	
3½	Consolidated Stock (New East River Bridge)	1918	300,000 00	10,500 00	14,000 00
3½	Consolidated Stock (Awards, etc., Change of Grade)	1910	300,000 00	$10,500 00	
3½	Consolidated Stock (Awards, etc., Change of Grade)	1911	85,000 00	2,975 00	13,475 00
3½	Consolidated Stock (Extension, Metropolitan Museum of Art)	1916	200,000 00	.....	7,000 00
3½	Consolidated Stock (St. John's Cemetery Park)	1916	554,565 04	.....	19,409 78
3½	Consolidated Stock (Improvement Public Parks, etc., New York City)	1917	123,000 00	$4,305 00	
3½	Consolidated Stock (Improvement Public Parks, etc., New York City)	1918	175,000 00	6,125 00	10,430 00
3½	Consolidated Stock (State Taxes for Support of Insane)	1915	177,000 00	$6,195 00	
3½	Consolidated Stock (State Taxes for Support of Insane)	1916	1,200,000 00	42,000 00	48,195 00
3½	Consolidated Stock (Redemption of Bonds Maturing in 1896)	1922	7,000,000 00	.....	245,000 00

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
3½	Consolidated Stock (Department Public Charities, Buildings, etc.)	1918	$350,000 00	.....	$12,250 00
3½	Consolidated Stock (Department of Correction, Buildings, etc.)	1918	250,000 00	.....	8,750 00
3½	Consolidated Stock (for Laying Water-mains)	1918	400,000 00	.....	14,000 00
3½	Consolidated Stock (Street and Park Opening Fund Stock)	1918	1,868,867 30	.....	65,410 36
3½	Consolidated Stock (For Redemption of Revenue Bonds —Fort Washington Park)	1918	867,310 08	.....	30,355 85
3½	Consolidated Stock (For Redemption of Revenue Bonds —Appellate Division, Supreme Court)	1918	389,431 90	.....	13,630 12
3	Consolidated Stock — City (Harlem River Bridge at Third Avenue)	1920	400,000 00	$12,000 00	
3½	Consolidated Stock — City (Harlem River Bridge at Third Avenue)	1916	250,000 00	8,750 00	
3½	Consolidated Stock — City (Harlem River Bridge at Third Avenue)	1917	400,000 00	14,000 00	
3½	Consolidated Stock — City (Lands, etc., for Harlem River Bridge at Third Avenue)	1918	400,000 00	14,000 00	48,750 00
3	Consolidated Stock — City (Bridge over Harlem Ship Canal)	1920	80,000 00	.....	2,400 00
3	Consolidated Stock — City (Harlem River Bridge at One Hundred and Fifty-fifth Street)	1920	100,000 00	.....	3,000 00
3	Consolidated Stock — City (Sedgwick Avenue and Ogden Avenue Approaches to One Hundred and Fifty-fifth Street Bridge)	1920	73,000 00	.....	2,190 00
3	Consolidated Stock (Repaving Streets and Avenues)	1910	1,000,000 00	$30,000 00	
3	Consolidated Stock (Repaving Streets and Avenues)	1913	500,000 00	15,000 00	
3	Consolidated Stock (Repaving Streets and Avenues)	1916	500,000 00	15,000 00	
3	Consolidated Stock (Repaving Streets and Avenues)	1916	475,000 00	16,625 00	
3	Consolidated Stock (Repaving Streets and Avenues)	1920	700,000 00	21,000 00	
3½	Consolidated Stock (Repaving Streets and Avenues)	1917	600,000 00	21,000 00	
3½	Consolidated Stock (Repaving Streets and Avenues)	1918	1,400,000 00	49,000 00	$167,625 00
3	Consolidated Stock (Repaving Third Avenue in the Twenty-third Ward)	1920	50,000 00	....	1,500 00
3	Consolidated Stock (Purchase of Ward's Island, etc.)	1913	672,409 72	.....	20,172 29
2½	Consolidated Stock — City (New Parks, etc.)	1909-1929	5,087,000 00	.....	127,175 00
3½	Consolidated Stock (Corlears Hook Park)	1913	1,370,421 00	$47,964 74	
3	Consolidated Stock (Corlears Hook Park)	1914	124,500 00	3,735 00	51,699 74
3	Consolidated Stock (Public Driveway)	1920	800,000 00	$24,000 00	
3½	Consolidated Stock (Public Driveway)	1916	250,000 00	8,750 00	32,750 00
3	Consolidated Stock (Castle Garden and Aquarium)	1920	70,000 00	.....	2,100 00
3	Consolidated Stock (East Wing, American Museum of Natural History)	1920	$225,000 00	.....	$6,750 00
3	Consolidated Stock (Improvement of Parks, Parkways and Drives, New York City and Pelham Park)	1920	310,000 00	... .	9,300 00
3	Consolidated Stock (City Improvement Stock)	1915	778,772 36	.....	23,363 17
3	Consolidated Stock (Mulberry Bend Park)	1924	1,584,371 00	$47,531 13	
3	Consolidated Stock (Mulberry Bend Park)	1920	100,000 00	3,000 00	50,531 13
3	Consolidated Stock (Public Building, Crotona Park)	1914	60,000 00	.. ..	1,800 00
3	Consolidated Stock (Fire Department Bonds)	1914	108,015 00	.....	3,240 45
3	Consolidated Stock (Riverside Park and Drive)	1914	190,000 00	$5,700 00	
3½	Consolidated Stock (Riverside Park and Drive)	1912	200,000 00	7,000 00	
3	Consolidated Stock (Riverside Park Improvement)	1914	190,000 00	5,700 00	18,400 00
3	Consolidated Stock (Street Cleaning Department Plant)	1914	50,000 00	$1,500 00	
3½	Consolidated Stock (Street Cleaning Department Plant)	1912	83,000 00	2,905 00	
3½	Consolidated Stock (Street Cleaning Department Plant)	1916	150,000 00	5,250 00	9,655 00
3	Consolidated Stock (Seventh District Police and Eleventh Judicial District Courts)	1920	199,000 00	....	5,970 00
3	Dock Bonds	1914	355,000 00	$10,650 00	
3	Dock Bonds	1916	500,000 00	15,000 00	
3	Dock Bonds	1917	500,000 00	15,000 00	
3	Dock Bonds	1918	500,000 00	15,000 00	
3	Dock Bonds	1919	1,000,000 00	30,000 00	
3	Dock Bonds	1920	1,050,000 00	31,500 00	
3	Dock Bonds	1921	1,250,000 00	37,500 00	
3	Dock Bonds	1922	20,000 00	600 00	
3	Dock Bonds	1923	865,000 00	25,950 00	
3	Dock Bonds	1924	1,125,000 00	33,750 00	
3	Dock Bonds	1925	1,148,000 00	34,440 00	
3½	Dock Bonds	1915	1,150,000 00	40,250 00	
3½	Dock Bonds	1924	500,000 00	17,500 00	
3½	Dock Bonds (Consolidated Stock)	1926	1,000,000 00	35,000 00	
3½	Dock Bonds (Consolidated Stock)	1927	4,000,000 00	140,000 00	
3½	Dock Bonds (Consolidated Stock —Additional)	1928	1,750,000 00	61,250 00	543,390 00
3	School-house Bonds	1911	897,105 72	$26,913 17	
3½	School-house Bonds (Consolidated Stock)	1911	806,502 84	28,227 60	
3½	School-house Bonds (Consolidated Stock)	1912	542,553 60	18,989 38	
3	School-house Bonds	1913	754,560 75	22,636 82	
3	School-house Bonds	1914	836,013 66	25,080 41	
3½	School-house Bonds (Consolidated Stock)	1914	84,694 80	2,964 32	
3½	School-house Bonds (Consolidated Stock)	1915	1,925,141 37	67,379 95	
3½	School-house Bonds (Consolidated Stock)	1916	3,691,269 54	129,194 43	321,386 08
3	Sanitary Improvement School-house Bonds	1914	129,871 00	$3,896 13	
3½	Sanitary Improvement School-house Bonds	1916	112,058 33	3,922 04	7,818 17
3	Water-main Stock (Consolidated Stock)	1914	250,000 00	.....	7,500 00
	TOWN OF WEST FARMS.				
7	Construction of Central Avenue.	1910-2147	236,000 00	.....	16,520 00
	TOWN OF MORRISANIA.				
7	Construction of Central Avenue	1910-1980	70,500 00	$4,935 00	

Rate Per Cent.	Title of Bonds and Stocks.	Maturity.	Principal.	Interest.	Total Interest.
7	Construction of St. Anns Ave...	1910	$1,000 00	$35 00	$4,970 00
	TOWN OF WESTCHESTER.				
3¼	Improvement Bonds.....	1910-1916	35,000 00	$1,056 25	
3½	Improvement Bonds.....	1917-1947	155,000 00	5,425 00	6,481 25
4	Bonds, Union Free School District No. 2, first issue.....	1910-1917	8,000 00	5300 00	
5	Bonds, Union Free School District No. 2..	1910-1918	22,000 00	1,050 00	1,350 00
	VILLAGE OF WILLIAMSBRIDGE.				
4	Highway Improvement Bonds, Issue No. 1.....	1910-1918	9,000 00	$360 00	
4	Highway Improvement Bonds, Issue No. 2.....	1910-1924	12,000 00	480 00	
4	Highway Improvement Bonds, Issue No. 3.....	1910-1937	28,000 00	1,120 00	
6	Highway Improvement Bonds, Issue No. 4.....	1910-1943	34,000 00	2,010 00	
5	Highway Improvement Bonds, Issue No. 5.....	1910-1934	25,000 00	1,225 00	
5	Sewer Bonds.....	1915	175,000 00	8,750 00	13,945 00
	VILLAGE OF WAKEFIELD.				
4½	Highway Improvement Bonds, Series No. 2.....	1910-1925	17,440 00	$784 80	
4	Highway Improvement Bonds, Series No. 3.....	1910-1923	14,000 00	560 00	
4½	Highway Improvement Bonds, Series No. 4.....	1910-1923	14,000 00	630 00	1,974 80
	TOWN OF EASTCHESTER.				
5	Bonds, Union Free School New District No. 4.....	1910-1913	$4,000 00	$225 00	
4	Bonds, Union Free School District No. 5, 2 16-100 per cent. of $11,000.	1910-1913	194 40	6 92	231 92
	COUNTY.				
3 3/10	Consolidated Stock—County.	1917-1921	8,699,000 00	.....	287,067 00 $2,759,410 29

THE CITY OF BROOKLYN, AS CONSTITUTED PRIOR TO JANUARY 1, 1898.

Rate of Interest.	Title of Loan.	Maturity.	Principal.	Interest.	Total Interest.
Per Ct.	CITY OF BROOKLYN.				
6	Public Park.....	1924	$1,092,000 00	$65,520 00	
7	Public Park.....	1915-1918	7,605,000 00	532,350 00	$597,870 00
7	New York Bridge.....	1910-1924	1,550,000 00	.....	108,500 00
6	Brooklyn City Bonds for Completion of New York and Brooklyn Bridge.....	1910-1916	1,890,000 00	$113,400 00	
5	Brooklyn City Bonds for Completion of New York and Brooklyn Bridge.....	1917-1920	1,879,000 00	93,950 00	
4	Brooklyn City Bonds for Completion of New York and Brooklyn Bridge.....	1921-1928	1,884,000 00	75,360 00	
3	New York and Brooklyn Bridge (Terminal Improvement)...	1922-1925	360,000 00	10,800 00	
3½	New York and Brooklyn Bridge (Terminal Improvement)...	1922-1931	640,000 00	22,400 00	
3½	New York and Brooklyn Bridge (Opening Avenue of Approach)....	1923-1927	$1,482,000 00	$51,870 00	
4	New York and Brooklyn Bridge (Opening Avenue of Approach)....	1923-1927	275,000 00	11,000 00	
3½	New York and Brooklyn Bridge Consolidated Stock, Gold, (Opening Avenue of Approach).....	1928-1929	170,000 00	5,950 00	
3½	Consolidated Gold Stock (Completion of Improvements of Terminal of New York and Brooklyn Bridge).....	1925-1926	160,000 00	5,600 00	$390,330 00
4	Arrearage, 10 40 Bonds.....	1893-1923	150,000 00	$6,000 00	
3½	Arrearage, 10 40 Bonds.....	1894-1924	700,000 00	24,500 00	30,500 00
4	Bonds for Arrearage of County Taxes.	1924	549,000 00	.....	21,960 00
3	Local Improvement Bonds (Laws of 1888).	1910-1916	700,000 00	$19,850 00	
3	Local Improvement Bonds (Laws of 1889).	1916-1924	900,000 00	27,000 00	
3	Local Improvement Bonds (Laws of 1892).	1921	7 000 00	210 00	
3½	Local Improvement Bonds (Laws of 1892).	1918-1921	340,000 00	11,900 00	
4	Local Improvement Bonds (Laws of 1892).	1920-1921	108,000 00	4,320 00	
4	Local Improvement Bonds (Laws of 1894).	1920-1922	300,000 00	12,000 00	
3	Local Improvement Bonds (Laws of 1894).	1923-1924	200,000 00	7,000 00	
4	Local Improvement Bonds (Laws of 1894).	1925-1929	435,000 00	17,400 00	
3½	Local Improvement Bonds, Gold (Laws of 1894).....	1930	100,000 00	3,500 00	
3½	Local Improvement Bonds, Gold (Laws of 1895).....	1914-1915	300,000 00	10,500 00	
3½	Local Improvement Bonds, Gold (Laws of 1896).....	1916	300,000 00	10,500 00	
3	Local Improvement Bonds, Gold (Laws of 1896).....	1917	465,000 00	16,275 00	140,455 00
3	Municipal Site..	1914-1916	265,000 00	.....	7,950 00
3	Main Sewer Relief and Extension.....	1922-1926	517,000 00	$15,510 00	
3½	Main Sewer Relief and Extension.....	1922-1927	643,000 00	22,505 00	
3½	Main Sewer Relief and Extension.....	1933	50,000 00	1,750 00	
4	Main Sewer Relief and Extension.....	1931-1932	200,000 00	8,000 00	
3½	Main Sewer Relief and Extension (Consolidated Gold Stock).....	1925-1936-1938	333,000 00	11,655 00	59,420 00
3	Twenty-sixth and Adjacent Wards(Sewers)	1914	115,000 00	$3,450 00	
3	Twenty-sixth and Adjacent Wards(Sewers)	1914	34,000 00	1,020 00	
3½	Twenty-sixth and Adjacent Wards(Sewers)	1915-1916	200,000 00	7,000 00	
3½	Twenty-sixth and Adjacent Wards(Sewers)	1924-1925	150,000 00	5,250 00	
4	Twenty-sixth and Adjacent Wards(Sewers)	1917-1921	450,000 00	18,000 00	
4	Twenty-sixth and Adjacent Wards(Sewers)	1922-1923	200,000 00	8,000 00	
4	Twenty-sixth and Adjacent Wards(Sewers)	1926	100,000 00	4,000 00	
3½	Twenty-sixth and Adjacent Wards(Sewers) Gold.....	1918-1925-1927	195,000 00	6,825 00	53,545 00
3	School Improvement (Laws of 1888).....	1917-1920	400,000 00	$12,000 00	
3	School Improvement (Laws of 1889).....	1916-1923	800,000 00	24,000 00	36,000 00

Rate of Interest.	Title of Loan.	Maturity.	Principal.	Interest.	Total Interest.
3	School Building (Laws of 1891 and 1892).....	1917-1919	$104,000 00	$3,120 00	
3	School Building (Laws of 1891 and 1892).. ...	1920-1921	162,000 00	4,860 00	
3½	School Building (Laws of 1891 and 1892).....	1918-1919-1923	240,000 00	8,400 00	
4	School Building (Laws of 1891 and 1892).....	1920	100,000 00	4,000 00	
4	School Building (Laws of 1894).	1920-1924	250,000 00	10,000 00	
3½	School Building (Laws of 1894).	1923-1925	218,000 00	7,630 00	
3½	School Building (Laws of 1894) Gold	1924-1926	282,000 00	9,870 00	
3½	School Building (Laws of 1895) Gold	1935-1936	792,000 00	27,720 00	
3½	School Building. Gold	1937	250,000 00	8,750 00	$84,350 00
3	Public Site (Purchase and Construction)	1920-1924	500,000 00	.....	15,000 00
3	Public Market ..	1917-1919	750,000 00	$22,500 00	
4	Public Market ..	1920-1923	1,209,000 00	48,360 00	
3½	Public Market, Gold	1924	90,000 00	3,150 00	74,010 00
4	Soldiers and Sailors' Monument	1925	100,000 00	.....	4,000 00
3	Park Purchase..	1912-1918	650,000 00	.....	19,500 00
4	Park Improvement	1910	50,000 00	$1,833 33	
3½	Park Improvement	1912	50,000 00	1,750 00	
3½	Park Improvement	1911	50,000 00	1,750 00	
3½	Park Improvement, Gold....	1913	40,000 00	1,400 00	6,733 33
4	East Side Park Land Grading.	1914	50,000 00	$2,000 00	
3½	East Side Park Land Grading, Gold.....	1917	10,000 00	350 00	2,350 00
3½	Wallabout Gold Bonds.....	1925-1926	325,000 00	$11,375 00	
3½	Consolidated Stock (Wallabout Market Improvement Bonds)	1925	25,000 00	875 00	
3½	Consolidated Stock, Gold, (Wallabout Market Improvement Bonds)	1917	20,000 00	700 00	
3½	Consolidated Stock, Gold, (Wallabout Market Improvement Bonds).....	1925	15,000 00	5,525 00	
3½	Consolidated Gold Stock, (Improvement, Wallabout Market Lands)	1916	25,000 00	875 00	14,350 00
3½	Consolidated Stock, Gold, (Disciplinary Training School for Boys)	1937	90,000 00	.....	3,150 00
3½	High School, Gold	1927	24,500 00	.....	857 50
3½	Museums of Art and Science, Gold.....	1925-1927	317,000 00	.....	11,095 00
3½	City Hall Improvement, Gold	1920-1921	155,000 00	.....	5,425 00
3½	Memorial Monument..	1924-1927	40,000 00	.....	1,400 00
3½	Consolidated Gold Stock (Construction New East River Bridge).	1935-1937	537,325 00	.....	18,806 38
3½	Gravesend Local Improvement, Gold.....	1925-1932-1934	321,500 00	.....	11,252 50
3½	Consolidated Gold Stock (Indexing and Re-indexing)..	1927	271,000 00	.....	9,485 00
3½	North Second Street Pier and Sewer, Gold...	1916	40,000 00	.....	1,400 00
3½	Consolidated Gold Stock (Construction of Bridge between Counties of Kings and Queens).....	1936	112,000 00	.....	3,920 00
3½	Consolidated Gold Stock (County Deficiencies).....	1927	48,000 00	.....	1,680 00
3½	Consolidated Gold Stock (for Maturing Obligations of County of Kings).....	1936	700,000 00	.....	24,500 00

Rate of Interest.	Title of Loan.	Maturity.	Principal.	Interest.	Total Interest.
3½	Consolidated Gold Stock (Leonard Street Improvement)...	1937	$70,000 00	.....	$2,450 00
3½	Consolidated Gold Stock (Principal and Interest past due on Gravesend Bonds)....	1936	21,242 41	.....	743 49
3½	Consolidated Gold Stock (Improvement of Albany Avenue).....	1927	37,000 00	.....	1,295 00
3½	Jamaica Plank Road Bonds, Gold..... .	1917	105,000 00	.....	3,675 00
3½	Flatbush Sewer, Gold.....	1921-1928	70,000 00	$2,450 00	
3½	Flatbush Sewer, Gold, Series "C"..	1910-1920	50,000 00	1,750 00	4,200 00
3½	Public Library, Gold....	1937	5,000 00	.....	175 00
3½	Memorial Bonds, Gold (Fowler Statue).....	1917	7,000 00	.....	245 00
	TOWN OF FLATBUSH.				
3½	Flatbush Sewer Bonds, Series "A"..	1910-1928	95,000 00	$3,325 00	
4	Flatbush Sewer Bonds, Series "B"..... .	1910-1928	171,000 00	6,840 00	10,165 00
	TOWN OF NEW UTRECHT.				
5	Street Improvement Bonds, First Series...	1910-1954	90,000 00	$4,450 00	
5	Street Improvement Bonds, Second Series.	1910-1954	90,000 00	4,450 00	
5	Street Improvement Bonds, Third Series ..	1910-1954	90,000 00	4,450 00	
5	Street Improvement Bonds, Fourth Series.	1910-1954	90,000 00	4,450 00	
5	Street Improvement Bonds, Fifth Series...	1910-1954	90,000 00	4,450 00	22,250 00
	TOWN OF GRAVESEND.				
4	Local Improvement Bonds...	1939	300,000 00	$12,000 00	
5	Local Improvement Bonds...	1934	40,000 00	2,000 00	14,000 00
5	Gravesend Sewer Improvement Loan Bonds...	1921-1932	160,000 00	$8,000 00	
4½	Gravesend Sewer Improvement Loan Bonds...	1918-1927	66,000 00	2,970 00	
3 85/100	Gravesend Sewer Improvement Loan Bonds...	1918-1927	20,000 00	730 00	
3½	Gravesend Sewer Improvement Loan Bonds...	1919-1928	33,000 00	1,155 00	
3½	Gravesend Sewer Improvement Loan Bonds ..	1919-1928	50,000 00	1,750 00	
5	Gravesend Sewer Improvement Loan Bonds ..	1921-1931	341,000 00	17,050 00	31,655 00
	KINGS COUNTY.				
4	County Farm Loan.....	1910-1913	472,000 00	$16,580 00	
3½	County Farm Loan	1914	100,000 00	3,500 00	20,080 00
4	Public Building Improvement Loan	1910-1919	250,000 00	.....	9,500 00
4	Public Driveway and Parkway Loan	1910-1933	2,350,000 00	.....	94,000 00
4	Public Park Fund Loan...	1910-1944	1,750,000 00	$69,000 00	
4	Public Park Fund Loan...	1933-1940	400,000 00	16,000 00	85,000 00
4	Refunding Loan	1910-1912	404,000 00	$12,080 00	
3½	Refunding Loan..	1918	130,000 00	4,550 00	
3	Refunding Loan..	1915	180,000 00	5,400 00	22,030 00
4	Street Improvement Fund Bonds	1915-1926	1,550,000 00	.....	62,000 00 $2,143,258 20

CORPORATIONS IN QUEENS COUNTY.

Rate Per Cent.	Title of Bonds.	Maturity.	Principal.	Interest.	Total Interest.
	LONG ISLAND CITY.				
4½	Fire Department Bonds	1924	$35,000 00	.....	$1,575 00
4½	Funded Debt Bonds	1913	112,000 00	.....	5,040 00
7	Funded Debt for Newtown	1910	16,000 00	$560 00	
7	Funded Debt for Newtown	1911	16,000 00	1,120 00	
6	Funded Debt for Newtown	1913	16,500 00	990 00	
6	Funded Debt for Newtown	1914	16,000 00	960 00	
6	Funded Debt for Newtown	1915	21,000 00	1,260 00	
6	Funded Debt for Newtown	1916	11,000 00	660 00	
6	Funded Debt for Newtown	1917	16,000 00	960 00	
6	Funded Debt for Newtown	1918	16,000 00	960 00	
6	Funded Debt for Newtown	1919	16,000 00	960 00	
4	Funded Debt for Newtown	1920	16,000 00	640 00	9,070 00
4½	Public School Bonds	1910	145,000 00	$4,387 50	
4½	Public School Bonds	1912	122,000 00	5,490 00	9,877 50
4	Refunded Revenue Bonds of 1885	1910	77,000 00	.....	1,540 00
4½	Park Award Bonds	1917	78,000 00	.....	3,510 00
4½	Street Improvement Bonds	1911	100,000 00	$4,500 00	
4½	Street Improvement Bonds	1913	130,500 00	5,872 50	10,372 50
5	Survey and Map Bonds	1918	4,500 00	$225 00	
5	Survey and Map Bonds	1919	9,000 00	450 00	
5	Survey and Map Bonds	1920	9,000 00	450 00	
5	Survey and Map Bonds	1921	9,000 00	450 00	
5	Survey and Map Bonds	1922	9,000 00	450 00	
5	Survey and Map Bonds	1923	9,000 00	450 00	
5	Survey and Map Bonds	1924	8,000 00	400 00	
5	Survey and Map Bonds	1925	8,500 00	425 00	3,300 00
6	Water Bonds	1911	25,000 00	$1,500 00	
6	"	1913	12,000 00	720 00	
6	"	1914	10,000 00	600 00	
3½	" Main.	1920	10,000 00	350 00	
3½	" "	1921	8,000 00	280 00	
3½	" "	1924	5,000 00	175 00	
3½	"	1919	17,000 00	595 00	
4½	Water Supply Bonds	1915	19,000 00	855 00	5,075 00
5	Funded Water Debt Bonds	1918	15,000 00	$750 00	
5	Funded Water Debt Bonds	1919	15,000 00	750 00	
5	Funded Water Debt Bonds	1923	15,000 00	750 00	
5	Funded Water Debt Bonds	1924	15,000 00	750 00	
5	Funded Water Debt Bonds	1925	15,000 00	750 00	
5	Funded Water Debt Bonds	1920	15,000 00	600 00	
4	Funded Water Debt Bonds	1921	15,000 00	600 00	
4	Funded Water Debt Bonds	1922	15,000 00	600 00	5,550 00
	TOWN OF NEWTOWN.				
4½	English Kills, Gold Road Bonds	1927	20,000 00	.....	900 00
4	Flushing Avenue Improvement Bonds	1913-1917	47,000 00	.....	1,880 00
5	Funded Debt, 3d Series	1910	7,000 00	$175 00	
5	Funded Debt, 4th Series	1910-1914	46,000 00	2,225 00	
5	Funded Debt, 5th Series	1914	5,000 00	250 00	
4	Funded Debt, 3d Series	1910	28,000 00	560 00	
4	Funded Debt, 5th Series	1911	20,000 00	800 00	
4	Funded Debt, 6th Series	1912	$20,000 00	$800 00	
4	Funded Debt, 7th Series	1910-1914	5,000 00	200 00	
4	Funded Debt, 8th Series	1910-1915	6,000 00	240 00	
4	Funded Debt, 9th Series	1910-1916	7,000 00	280 00	$5,530 00
4½	Road Bonds Series of 1897	1927	600,000 00	.....	27,000 00
4	Bonds, Union Free School District No. 1.	1910-1927	36,000 00	$1,400 00	
4	Bonds, Union Free School District No. 1.	1913-1927	15,000 00	600 00	
5	Bonds, Union Free School District No. 2.	1910-1918	9,000 00	425 00	
5	Bonds, Union Free School District No. 2.	1910-1918	9,000 00	425 00	
5	Bonds, Union Free School District No. 2.	1919-1924	6,000 00	300 00	
5	Bonds, Union Free School District No. 3.	1910-1914	3,250 00	162 50	
5	Bonds, Union Free School District No. 3.	1910-1917	8,000 00	400 00	
5	Bonds, Union Free School District No. 4.	1910-1926	6,800 00	340 00	
5	Bonds, Union Free School District No. 5.	1910	500 00	12 50	
4½	Bonds, Union Free School District No. 5.	1910-1913	4,000 00	157 50	
5	Bonds, Union Free School District No. 5.	1910-1927	36,000 00	1,750 00	
5	Bonds, Union Free School District No. 7.	1910-1913	800 00	40 00	
5	Bonds, Union Free School District No. 9.	1910-1920	11,000 00	550 00	
5	Bonds, Union Free School District No. 10	1910-1921	18,000 00	862 50	
5	Bonds, Union Free School District No. 10	1910-1927	31,500 00	1,575 00	
5	Bonds, Union Free School District No. 10	1910-1926	17,000 00	850 00	
6	Bonds, Union Free School District No. 11	1910-1914	5,000 00	300 00	
5	Bonds, Union Free School District No. 12	1910-1922	6,500 00	312 50	
5	Bonds, Union Free School District No. 13	1910-1912	3,000 00	125 00	
5	Bonds, Union Free School District No. 14	1910-1920	5,500 00	262 50	
4½	Bonds, Union Free School District No. 14	1910-1912	1,500 00	56 25	
5	Bonds, Union Free School District No. 14	1911-1928	35,000 00	1,750 00	12,656 25
	TOWN OF JAMAICA.				
4	Town Hall Land Bonds	1910-1925	32,000 00	.....	1,280 00
4	Macadam Road Bonds	1926	450,000 00	.....	18,000 00
4½	Bonds, Union Free School District No. 1.	1927-1976	50,000 00	$2,250 00	
5	Bonds, Union Free School District No. 2.	1910-1924	15,000 00	725 00	
5	Bonds, Union Free School District No. 2.	1920-1924	5,000 00	250 00	
5	Bonds, Union Free School District No. 3.	1910-1914	12,000 00	500 00	
4	Bonds, School District No. 4.	1910-1949	80,000 00	3,200 00	
5	Bonds, School District No. 4.	1910-1919	5,000 00	250 00	
6	Bonds, Union Free School District No. 6.	1910-1922	3,250 00	195 00	
5	Bonds, Union Free School District No. 6.	1917-1928	12,000 00	600 00	
5	Bonds, Union Free School District No. 6.	1930-1933	4,000 00	200 00	
4	Bonds, Union Free School District No. 7.	1910-1937	28,000 00	1,100 00	
4	Bonds, Union Free School District No. 7.	1910-1924	15,000 00	600 00	
4	Bonds, Union Free School District No. 7.	1910-1929	20,000 00	800 00	

Rate Per Cent.	Title of Bonds.	Maturity	Principal.	Interest.	Total Interest.
5	Bonds, Union Free School District No. 7.	1910-1953	$88,000 00	$4,400 00	
5	Bonds, Union Free School District No. 7.	1950-1974	125,000 00	6,250 00	
5	Bonds, Union Free School District No. 8.	1910-1918	18,000 00	850 00	
4	Bonds, Union Free School District No. 8.	1919-1927	18,000 00	720 00	
5	Bonds, Union Free School District No. 8.	1930-1954	75,000 00	3,750 00	
5	Bonds, Union Free School District No. 10	1910	500 00	25 00	
5	Bonds, Union Free School District No. 10	1911-1913	1,500 00	75 00	
5	Bonds, Union Free School District No. 10	1914-1923	5,000 00	250 00	
5	Bonds, Union Free School District No. 10	1925-1928	2,000 00	100 00	
5	Bonds, Union Free School District No. 11	1910-1913	2,000 00	87 50	
					$27,177 50
	VILLAGE OF JAMAICA.				
4	Sewer Bonds.....	1917	150,000 00	.....	6,000 00
4	Street Improvement Bonds, Issue No. 1....	1917-1936	200,000 00	$8,000 00	
4	Street Improvement Bonds, Issue No. 2....	1917-1936	200,000 00	8,000 00	
					16,000 00
	VILLAGE OF RICHMOND HILL.				
4	Highway Improvement Bonds	1916-1925	50,000 00	.....	2,000 00
4	Village Hall Bonds.....	1916-1925	10,000 00	.....	400 00
4	Fire Equipment Bonds	1921-1925	5,000 00	.....	200 00
4	Highway Improvement Bonds	1926-1935	50,000 00	$2,000 00	
4	Highway Improvement Bonds	1937-1950	70,000 00	2,800 00	
					4,800 00
4	Sidewalk Improvement Bonds	1952-1981	150,000 00	.....	6,000 00
	TOWN OF FLUSHING.				
4	Macadam Gold Road Bonds..	1910-1919	25,000 00	.....	1,000 00
4	Bell Avenue Improvement Bonds	1910-1921	24,000 00	.....	960 00
5	Broadway Improvement Bonds	1910-1918	9,000 00	.....	425 00
5	Bonds, Union Free School District No. 2.	1910 1916	7,000 00	$350 00	
5	Bonds, Union Free School District No. 4.	1910	500 00	12 50	
5	Bonds, Union Free School District No. 4.	1911-1915	2,500 00	125 00	
4	Bonds, School District No. 5.	1910-1929	40,000 00	1,600 00	
4	Bonds, School District No. 5.	1930-1934	10,000 00	400 00	
4	Bonds, School District No. 5.	1910-1927	87,500 00	3,500 00	
4	Bonds, School District No. 7.	1917-1936	50,000 00	2,000 00	
4	Bonds, School District No. 7.	1937-1944	20,000 00	800 00	
					8,787 50
	VILLAGE OF FLUSHING.				
4	Funded Bonds of 1892	1910-1912	3,000 00	$100 00	
4	Funded Bonds of 1893.	1910 1915	3,000 00	110 00	
4	Funded Bonds of 1894.....	1910-1919	10,000 00	400 00	
					610 00
4	Street Improvement Bonds of 1894.....	1910-1918	34,000 00	$1,280 00	
4	Street Improvement Bonds of 1896.....	1919 1948	120,000 00	4,800 00	
					6,080 00
4	Standpipe Bonds	1910 1932	23,000 00	.....	900 00

Rate Per Cent.	Title of Bonds.	Maturity.	Principal.	Interest.	Total Interest.
5	Refunding Water Bonds of 1889..	1914	$20,000 00	.....	$1,000 00
	VILLAGE OF COLLEGE POINT.				
4	Improvement Bonds	1910-1916	21,000 00	$840 00	
3½	Improvement Bonds	1910 1926	78,200 00	2,737 00	
					3,577 00
	VILLAGE OF WHITESTONE.				
4	Village Bonds, (Accrued Indebtedness), Series No. 2...	1910-1911	1,000 00	.....	30 00
5	Improvement Bonds, Series No. 1.....	1910-1921	45,000 00	$2,250 00	
5	Improvement Bonds, Series No. 2.....	1911 1926	50,000 00	2,500 00	
					4,750 00
	TOWN OF HEMPSTEAD.				
4	Macadam Gold Road Bonds..	1923	127,000 00	.....	5,080 00
5	Bonds, Union Free School District No. 18	1913	7,000 00	$350 00	
5	Bonds, Union Free School District No. 18	1918	5,000 00	250 00	
5	Bonds, Union Free School District No. 18	1917 1938	22,000 00	1,100 00	
5	Bonds, Union Free School District No. 23	1910 1912	3,000 00	150 00	
5	Bonds, Union Free School District No. 23	1910 1979	70,000 00	3,500 00	
5	Bonds, Union Free School District No. 23	1937-1949	65,000 00	3,250 00	
					8,600 00
	TOWNS OF HEMPSTEAD, FLUSHING AND JAMAICA.				
5	Bonds, Union Free School District No. 27	1917 1933	17,000 00	.....	850 00
	VILLAGE OF ROCKAWAY BEACH.				
5	Street Improvement Bonds...	1910-1920	33,000 00	.....	1,575 00
	VILLAGE OF ARVERNE-BY-THE-SEA.				
5	Village Building Bonds	1917-1924	8,000 00	.....	400 00
5	Highway Improvement Bonds	1920 1927	40,000 00	.....	2,000 00
5	Drainage Bonds	1915-1919	5,000 00	$250 00	
5	Drainage Bonds	1920 1921	3,000 00	150 00	
5	Drainage Bonds	1921 1922	3,000 00	150 00	
5	Drainage Bonds	1921 1923	3,000 00	150 00	
					700 00
5	Street Improvement Bonds...	1920-1925	60,000 00	.....	3,000 00
5	Street Opening Bonds.....	1920 1923	4,000 00	.....	200 00
5	Sidewalk Improvement Bonds	1920-1923	40,000 00	.....	2,000 00
	VILLAGE OF FAR ROCKAWAY.				
5	Sewer Bonds.....	1916	75,000 00	$3,750 00	
5	Sewer Bonds.....	1917	35,000 00	1,750 00	
3½	Sewer Bonds....	1910-1925	32,000 00	1,085 00	
					6,585 00
5	Improvement of Streets and Avenues.....	1910-1922	73,000 00	$3,625 00	
5	Improvement of Streets and Avenues.....	1910-1918	23,000 00	1,125 00	
5	Improvement of Streets and Avenues	1910-1911	2,000 00	100 00	
4	Improvement of Streets and Avenues.....	1910-1916	7,000 00	260 00	
					5,110 00

QUEENS COUNTY.

Outstanding Bonds of the County of Queens, 78.952414973 per cent. of which has been imposed upon The City of New York.

Rate Per Cent.	Title of Bonds.	Maturity.	Principal.	Interest.
4	Jamaica Highway Improvement Bonds..	1922	$400.000 00	$16.000 00
4	Queens County Funding Bond. "A".....	1910-1919	100.000 00	3,800 00
4	County Road Bonds, "B"..	1916	80.000 00	3.200 00
4	County Road Bonds, "C"..	1916	71.000 00	2,840 00
4	County Road Bonds, "D"..	1916	160.000 00	6.400 00
4	County Road Bonds, "E"..	1916	35.000 00	1.400 00
4	County Road Bonds, "F"..	1916	45.000 00	1.800 00
4	County Road Bonds, "G"..	1916	35.000 00	1,400 00
4	County Road Bonds, "H"..	1917	50.000 00	2,000 00
4	County Road Bonds, "I"..	1917	60.000 00	2,400 00
4	County Road Bonds, "K"..	1917	45,000 00	1,800 00
4	County Road Bonds, "L"..	1917	45.000 00	1,800 00
4	County Road Bonds, "M"..	1917	17,000 00	680 00
4	County Road Bonds, "N"..	1917	70.000 00	2,800 00
4	County Road Bonds, "O"..	1917	7,000 00	280 00
4	County Road Bonds, "P"..	1917	75.000 00	3.000 00
4	County Road Bonds, "Q"..	1917	27.000 00	1,080 00
4	County Road Bonds, "R"..	1917	40.000 00	1,600 00
4	County Road Bonds, "S"..	1917	60.000 00	2,400 00
4	County Road Bonds, "T"..	1917	55.000 00	2,200 00
4	County Road Bonds, "U"..	1917	17,000 00	680 00
	County Road Bonds, "V"..	1917	50.000 00	2,000 00
4	County Road Bonds, "W"..	1917	135.000 00	5,400 00
4	County Road Bonds, "X"..	1917	340,000 00	13.600 00
4	County Road Bonds, "Y"..	1917	120.000 00	4.800 00
4	County Road Bonds, "AA"	1917	375,000 00	15,000 00
4	County Road Bonds, "BB"	1917	490.000 00	19,600 00
4	County Road Bonds, "CC"	1917	325.000 00	13.000 00
4	County Road Bonds, "DD"	1917	42,000 00	1,680 00
4	County Road Bonds, "EE"	1917	74,000 00	2,960 00
4	County Road Bonds, "FF"	1917	48,000 00	1,920 00
4	County Road Bonds, "GG"	1917	140,000 00	5,600 00
4	County Road Bonds, "HH"	1917	100,000 00	4,000 00
4	County Road Bonds, "KK"	1917	40,000 00	1,600 00
4	County Road Bonds, "LL"	1917	200,000 00	8,000 00
4	County Road Bonds, "MM"	1917	55,000 00	2,200 00
4	County Road Maintenance Bonds.....	1917	50,000 00	2,000 00
4	Building Bonds, Series 1.....	1927	120,000 00	4,800 00
4	Funding Bonds, Series "B".	1910-1927	230,000 00	9,200 00
4	Funding Bonds, Series "C"...	1917	50,000 00	2,000 00
			$4,478,000 00	$178,920 00
	New York City's proportion of principal at 78.952414973 per cent. on $4,478,000.....	...	$3.535,489 15	..... $141,261 66 — $390,214 91

CORPORATIONS IN THE COUNTY OF RICHMOND.

Rate Per Cent.	Title of Bonds.	Maturity.	Principal.	Interest.	Total Interest.
	TOWN OF MIDDLETOWN.				
5	Gold Road Bonds, Series of 1897.....	1927	$130,000 00	.....	$6,500 00
4	Refunding Bonds	1910-1925	16,000 00	.....	640 00
5	Bonds, School District No. 1.	1910-1917	18,000 00	.....	843 75
	TOWNS OF MIDDLETOWN AND SOUTHFIELD.				
5	Bonds, Union Free School District No. 2.	1910-1944	$70,000 00	.....	$3,500 00
	TOWN OF NORTHFIELD.				
5	Gold Road Bonds.	1927	150,000 00	.....	7,500 00
4 7/8	Bonds, School District No. 3.	1910-1915	1,105 26	$53 88	
5	Bonds, Union Free School District No. 5.	1910-1919	10,000 00	500 00	
5	Bonds, Union Free School District No. 6, (Port Richmond).....	1910-1922	25,000 00	1.250 00	
6	Bonds, School District No. 7.	1910-1915	1,050 00	57 75	
5	Bonds, School District No. 9.	1910-1916	2,450 00	122 50	1,984 13
	TOWN OF SOUTHFIELD.				
4	Refunding Bonds	1910-1931	19,200 00	.....	768 00
5	Gold Road Bonds, Series of 1897.....	1927	140.000 00	$7.000 00	
5	Gold Road Bonds.	1927	115,000 00	5,750 00	12,750 00
5	Bonds, School District No. 1.	1910-1916	4.900 00	$245 00	
5	Bonds, Union Free School District No. 3.	1910-1921	3,600 00	172 50	
5	Bonds, Union Free School District No. 6.	1910-1914	1,125 00	56 25	473 75
	SOUTHFIELD AND MIDDLETOWN.				
5	Bonds, School District No. 2.	1910-1914	3.000 00	.....	150 00
	TOWN OF WESTFIELD.				
4	Road Bonds	1920	35,000 00	.....	1,400 00
5	Gold Road Bonds.	1922	80.000 00	.....	4.000 00
6	Bonds, Common School District No. 1.....	1910-1916	1,400 00	$84 00	
6	Bonds, Union Free School District No. 5.	1910-1919	5,000 00	300 00	
5	Bonds, Union Free School District No. 6.	1910-1914	3.125 00	140 63	524 63
	TOWN OF CASTLETON.				
5	Bonds, Union Free School District No. 3.	1910-1922	30.000 00	$1,875 00	
5	Bonds, School District No. 4.	1910-1911	4.000 00	150 00	
4½	Bonds, School District No. 5.	1910-1916	2,362 50	106 30	2,131 30
	CASTLETON AND MIDDLETOWN.				
6	Bonds, School District No. 1.	1910-1913	20,000 00	.....	1,200 00
	VILLAGE OF TOTTENVILLE.				
3½	Water Bonds ...	1910-1926	20.400 00	.....	714 00
3½	Sewer Bonds....	1910-1926	13,600 00	.....	476 00
3½	Road Bonds	1910-1925	8,000 00	.....	280 00
	RICHMOND COUNTY.				
3	Refunding Bonds, Series "J".....	1910	58,000 00	.....	1,740 00
3½	Road Bonds, Series "A"...	1915	100,000 00	$3,500 00	
4½	Road Bonds, Series "B"...	1916	150,000 00	6,750 00	
3½	Road Bonds, Series "C"...	1917	45,000 00	1,575 00	11,825 00
4	Funding Bonds ..	1914	95,000 00	.....	3,800 00
5	Road Bonds, Series "E"...	1919	15,000 00	$750 00	
4	Road Bonds, Series "F"...	1920	35,000 00	1,400 00	
4	Road Bonds, Series "H"...	1921	18,000 00	720 00	
4	Road Bonds, Series "I"....	1922	12,000 00	480 00	
5	Road Bonds, Series "D"...	1919	75,000 00	3,750 00	
4	Road Bonds, Series "G"...	1920	100,000 00	4,000 00	
4	Road Bonds, Series "G"...	1921	150,000 00	6,000 00	
4	Road Bonds, Series "G"...	1922	190,000 00	7,600 00	
4	Road Bonds, Series "J"....	1922	230,000 00	9,200 00	
					33,900 00
					$97,100 56
					$25,178,760 49

For interest on Bonds and Stock to be issued in 1909 after September 30, and in 1910, estimated at	$2,000,000 00
For interest on Revenue Bonds, estimated at	5,000,000 00

REDEMPTION OF THE CITY DEBT.

THE CITY OF NEW YORK.

Rate Per Cent.	Title of Bonds.	Maturity.	Amounts.	Totals.
3.65	Special Revenue Bonds of 1909 authorized by the Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	1910	$200,000 00	
3¼	Special Revenue Bonds of 1909 authorized by the Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	1910	846,600 00	
3.55	Special Revenue Bonds of 1909 authorized by the Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	1910	350,000 00	
3½	Special Revenue Bonds of 1909 authorized by the Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	1910	1,765,550 00	
3¾	Special Revenue Bonds of 1909 authorized by the Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	1910	371,000 00	
	For the payment of Special Revenue Bonds to be issued in 1909, after September 30, which will mature in 1910	....	1,966,850 00	$5,500,000 00

THE CITY OF NEW YORK, AS CONSTITUTED PRIOR TO JANUARY 1, 1898.

Rate Per Cent.	Titles of Bonds.	Maturity.	Amounts.	Totals.
	TOWN OF WEST FARMS.			
7	Construction of Central Avenue	1910	$1,000 00	$1,000 00
	TOWN OF MORRISANIA.			
7	Construction of Central Avenue	1910	$1,000 00	
7	Construction of St. Anns Avenue	1910	1,000 00	2,000 00
	TOWN OF WESTCHESTER.			
3¼	Improvement Bonds	1910	$5,000 00	
4	Bonds of Union Free School District No. 2 (First Issue)	1910	1,000 00	
5	Bonds of Union Free School District No. 2	1910	2,000 00	8,000 00
	VILLAGE OF WILLIAMSBRIDGE.			
4	Highway Improvement Bonds (First Issue)	1910	$1,000 00	
4	Highway Improvement Bonds (Second Issue)	1910	1,000 00	
4	Highway Improvement Bonds (Third Issue)	1910	1,000 00	
6	Highway Improvement Bonds (Fourth Issue)	1910	1,000 00	
5	Highway Improvement Bonds (Fifth Issue)	1910	1,000 00	5,000 00
	VILLAGE OF WAKEFIELD.			
4½	Highway Improvement Bonds (Second Series)	1910	$1,000 00	
4	Highway Improvement Bonds (Third Series)	1910	1,000 00	
4½	Highway Improvement Bonds (Fourth Series)	1910	1,000 00	3,000 00
	TOWN OF EASTCHESTER.			
5	Bonds of Union Free School, New District No 4	1910	$1,000 00	
4	Bonds of Union Free School District No. 5, 2.16 per cent. of $2,000	1910	43 20	1,043 20
				$20,133 20

CITY OF BROOKLYN, AS CONSTITUTED PRIOR TO JANUARY 1, 1898.

Rate Per Cent.	Titles of Bonds.	Maturity.	Amounts.	Totals.
	THE CITY OF BROOKLYN.			
7	New York Bridge Bonds	1910	$100,000 00	
3	Local Improvement Bonds, Laws of 1888	1910	100,000 00	
6	Brooklyn City Bonds, for Completion of New York and Brooklyn Bridge	1910	440,000 00	
4	Park Improvement Bonds	1910	50,000 00	
3½	Flatbush Sewer Bonds, Gold Series "C"	1910	1,000 00	$691,000 00
	TOWN OF FLATBUSH.			
3.65	Flatbush Sewer Bonds, Series "A"	1910	$10,000 00	
4	Flatbush Sewer Bonds, Series "B"	1910	9,000 00	$19,000 00
	COUNTY OF KINGS.			
4	County Farm Loan	1910	$115,000 00	
4	Public Building Improvement Loan	1910	25,000 00	
4	Public Driveway and Parkway Loan	1910	100,000 00	
4	Public Park Fund Loan	1910	50,000 00	
4	Refunding Loan	1910	204,000 00	494,000 00
				$1,204,000 00

CORPORATIONS IN QUEENS COUNTY.

Rate Per Cent.	Titles of Bonds.	Maturity.	Amounts.	Totals.
	LONG ISLAND CITY.			
7	Funded Debt for Newtown	1910	$16,000 00	
4½	Public School Bonds	1910	145,000 00	$161,000 00
	TOWN OF NEWTOWN.			
4	Bonds, Union Free School District No. 1	1910	$2,000 00	
5	Bonds, Union Free School District No. 2	1910	1,000 00	
5	Bonds, Union Free School District No. 2	1910	1,000 00	
5	Bonds, Union Free School District No. 3	1910	650 00	
5	Bonds, Union Free School District No. 3	1910	1,000 00	
5	Bonds, Union Free School District No. 4	1910	400 00	
5	Bonds, Union Free School District No. 5	1910	500 00	
4½	Bonds, Union Free School District No. 5	1910	1,000 00	
5	Bonds, Union Free School District No. 5	1910	2,000 00	
5	Bonds, Union Free School District No. 7	1910	200 00	
5	Bonds, Union Free School District No. 9	1910	1,000 00	
5	Bonds, Union Free School District No. 10	1910	1,500 00	
5	Bonds, Union Free School District No. 10	1910	1,750 00	
5	Bonds, Union Free School District No. 10	1910	1,000 00	
6	Bonds, Union Free School District No. 11	1910	1,000 00	
5	Bonds, Union Free School District No. 12	1910	500 00	
5	Bonds, Union Free School District No. 13	1910	1,000 00	
4½	Bonds, Union Free School District No. 14	1910	500 00	
5	Bonds, Union Free School District No. 14	1910	500 00	18,500 00
4	Funded Debt Bonds (Seventh Series)	1910	$1,000 00	
4	Funded Debt Bonds (Eighth Series)	1910	1,000 00	
4	" (Ninth Series)	1910	1,000 00	
5	" (Third Series)	1910	7,000 00	
4	" " ...	1910	28,000 00	
5	" (Fourth Series)	1910	3,000 00	41,000 00
	TOWN OF JAMAICA.			
4	Town Hall Land Bonds	1910	$2,000 00	
5	Bonds, Union Free School District No. 2	1910	1,000 00	
5	Bonds, Union Free School District No. 3	1910	4,000 00	
4	Bonds, School District No. 4	1910	2,000 00	
5	" " 4.....	1910	500 00	
6	Bonds, Union Free School District No. 6	1910	250 00	
4	Bonds, Union Free School District No. 7	1910	1,000 00	
4	Bonds, Union Free School District No. 7	1910	1,000 00	
4	Bonds, Union Free School District No. 7	1910	1,000 00	
	Bonds, Union Free School District No. 7	1910	2,000 00	
5	Bonds Union Free School, District No. 8	1910	2,000 00	
5	Bonds, Union Free School District No. 10	1910	500 00	
5	Bonds, Union Free School District No. 11	1910	500 00	17,750 00
	TOWN OF FLUSHING.			
4	Macadam Gold Road Bonds	1910	$2,500 00	
5	Broadway Improvement Bonds	1910	1,000 00	

Rate Per Cent.	Titles of Bonds.	Maturity.	Amounts.	Totals.
4	Bell Avenue Improvement Bonds	1910	$2,000 00	
5	Bonds, Union Free School District No. 2	1910	$1,000 00	$5,500 00
5	Bonds, Union Free School District No. 4	1910	500 00	
	Bonds, School District No. 5	1910	2,000 00	
4	Bonds, School District No. 5	1910	5,000 00	8,500 00
	VILLAGE OF FLUSHING.			
4	Standpipe Bonds	1910	$1,000 00	
4	Funded Bonds of 1892	1910	1,000 00	
4	Funded Bonds of 1894	1910	1,000 00	
4	Funded Bonds of 1893	1910	500 00	
4	Street Improvement Bonds of 1894	1910	4,000 00	7,500 00
	VILLAGE OF COLLEGE POINT.			
3½	Improvement Bonds	1910	$4,600 00	
4	" "	1910	3,000 00	7,600 00
	VILLAGE OF WHITESTONE.			
5	Improvement Bonds, Series No. 1	1910	$2,000 00	
4	Village Bonds (accrued indebtedness), Series No. 2	1910	500 00	2,500 00
	VILLAGE OF FAR ROCKAWAY.			
3½	Sewer Bonds	1910	$2,000 00	
5	Improvement of Streets and Avenues	1910	1,000 00	
5	Improvement of Streets and Avenues	1910	1,000 00	
5	Improvement of Streets and Avenues	1910	1,000 00	
4	Improvement of Streets and Avenues	1910	1,000 00	6,000 00
	TOWN OF HEMPSTEAD.			
5	Bonds, Union Free School District No. 23	1910	$1,000 00	
5	Bonds, Union Free School District No. 23	1910	1,000 00	2,000 00
	VILLAGE OF ROCKAWAY BEACH.			
5	Street Improvement Bonds	1910	.....	3,000 00
	QUEENS COUNTY.			
4	Funding Bonds, Series "A" 78.952414973 per cent. of $10,000	1910	$7,895 24	
4	Funding Bonds, Series "B" 78.952414973 per cent. of $10,000	1910	7,895 24	15,790 48
				$296,640 48

CORPORATIONS IN RICHMOND COUNTY.

Rate Per Cent.	Titles of Bonds.	Maturity.	Amounts.	Totals.
	TOWNS OF SOUTHFIELD AND MIDDLETOWN.			
5	Bonds, School District No. 2	1910	.....	$600 00
	TOWN OF MIDDLETOWN.			
4	Refunding Bonds	1910	.....	1,000 00
5	Bonds, School District No. 1	1910	.....	2,250 00
	TOWNS OF MIDDLETOWN AND SOUTHFIELD.			
5	Bonds, Union Free School District No. 2	1910	.....	2,000 00
	TOWN OF NORTHFIELD.			
4⅞	Bonds, School District No. 3	1910	$184 21	
5	Bonds, Union Free School District No. 5	1910	1,000 00	
5	Bonds, Union Free School District No. 6, Port Richmond	1910	2,000 00	
6	Bonds, School District No. 7	1910	175 00	
5	" " " 9	1910	350 00	3,709 21
	TOWN OF SOUTHFIELD.			
4	Refunding Bonds	1910	.....	600 00
5	Bonds, School District No. 1	1910	$700 00	
5	Bonds, Union Free School District No. 3	1910	300 00	
5	Bonds, School District No. 6	1910	225 00	1,225 00
	TOWN OF WESTFIELD.			
6	Bonds, Common School District No. 1	1910	$200 00	
6	Bonds, Union Free School District No. 5	1910	500 00	
5	Bonds, Union Free School District No. 6	1910	625 00	1,325 00
	TOWNS OF CASTLETON AND MIDDLETOWN.			
6	Bonds, School District No. 1	1910	.....	5,000 00
	TOWN OF CASTLETON.			
5	Bonds, Union Free School District No. 3	1910	$3,000 00	
5	Bonds, School District No. 4	1910	2,000 00	
4½	" " 5	1910	337 50	5,337 50
	VILLAGE OF TOTTENVILLE.			
3½	Water Bonds	1910	$1,200 00	
3½	Sewer Bonds	1910	800 00	
3½	Road Bonds	1910	500 00	2,500 00
	RICHMOND COUNTY.			
3	Refunding Bonds, Series "J"	1910	.....	58,000 00
				$83,546 71
				$7,104,320 39

Installments Payable in 1910.

For amount of installments required to redeem Bonds and Stock issued by the City of New York, as provided by section 206 of the Greater New York Charter as amended (as shown in detailed statement)		$4,917,486 19
For amount of installments required for the redemption of Bonds and Stock issued after January 1, 1898, by the City of New York to provide for a supply of water, as provided by section 10 of article 8 of the Constitution of the State of New York (as shown in detailed statement)		1,264,193 67
For amount of installments required for the redemption of Bonds and Stock issued by the City of New York as constituted prior to January 1, 1898, to provide for a supply of water, as provided by section 10 of article 8 of the Constitution of the State of New York (as shown in detailed statement)		579,224 60
FOR AMOUNT OF INSTALLMENTS REQUIRED FOR THE REDEMPTION OF BONDS AND STOCK ISSUED BY THE CITY OF BROOKLYN, AS FOLLOWS:		
City Debt Arrearage 10-40s Bonds	$58,750 00	
Prospect Park Bonds	115,577 10	
Local Improvement Bonds (Laws of 1894)	16,620 15	
Local Improvement Bonds (Laws of 1895)	15,883 04	
Local Improvement Bonds (Laws of 1896)	34,302 90	
Park Improvement Bonds	5,531 25	
School Building Bonds (Laws of 1894)	10,069 59	
School Building Bonds (Laws of 1895)	19,659 90	
City Hall Improvement Bonds	7,039 58	
Gravesend Local Improvement Bonds	8,303 51	
Consolidated Gold Stock for Completing Terminal Improvement of Bridge	5,284 83	
Consolidated Gold Stock, Opening Avenue of Approach to Bridge	5,088 83	
New East River Bridge Bonds	13,118 20	
Main Sewer Relief and Extension Fund Bonds	7,919 59	
Museum of Arts and Sciences Bonds	10,290 29	
Memorial Monument Bonds	1,317 14	
Public Market Bonds	3,117 85	
Consolidated Stock, Indexing Bonds	9,033 33	
Leonard Street Improvement Bonds	1,750 00	
North Second Street Pier and Sewer Bonds	2,105 26	
Wallabout Bonds	9,247 14	
Consolidated Stock, Newtown Creek Bridge Bonds	2,871 80	
Consolidated Stock, Deficiency Bonds	1,600 00	
Consolidated Stock, Wallabout Market Improvement Bonds	2,112 06	
Consolidated Stock, Principal and Interest past due on Gravesend Bonds	544 67	
Consolidated Stock, County Deficiency Bonds	17,948 71	
East Side Park Land Grading Bonds	398 14	
High School Bonds	541 81	
Public Library Bonds	69 22	
School Building Bonds (Laws of 1897)	3,460 96	
Consolidated Gold Stock, Improvement of Albany Avenue	512 22	
Consolidated Gold Stock, Disciplinary School	1,245 94	
Memorial Bonds (Fowler Statue)	278 70	
Sewer Bonds, Part 1, Sewer District No. 1, Town of Gravesend	3,000 00	
Sewer Bonds, Part 1, Sewer District No. 3, Town of Gravesend	3,000 00	
		$397,593 71
FOR AMOUNT OF INSTALLMENTS REQUIRED FOR THE REDEMPTION OF BONDS ISSUED BY THE CITY OF LONG ISLAND CITY.		
For amount to be raised by tax annually to redeem Fire Department Bonds as required by chapter 122, Laws of 1894	$1,166 67	
For amount to be raised by tax annually to redeem Water Bonds issued under chapter 759, Laws of 1895, pursuant to section 10 of article 8 of the Constitution of the State of New York	950 00	
	2,116 67	
		$7,160,614 84

RECAPITULATION.

Interest on the City Debt.			
The City of New York	$19,788,776 53		
The City of New York, as constituted prior to January 1, 1898	2,759,410 29		
The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	2,143,258 20		
Corporations in Queens County	390,214 91		
Corporations in Richmond County	97,100 56		
Interest on Bonds and Stock to be issued in 1909 after September 30, and in 1910	2,000,000 00		
Interest on Revenue Bonds	5,000,000 00		
		$32,178,760 49	
Redemption of the City Debt.			
The City of New York	$5,500,000 00		
The City of New York, as constituted prior to January 1, 1898	20,133 20		
The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	1,204,000 00		
Corporations in Queens County	296,640 48		
Corporations in Richmond County	83,546 71		
		7,104,320 39	
Installments payable in 1910.			
The City of New York (general)	$4,917,486 19		
The City of New York (Water Bonds)	1,264,193 67		
The City of New York, as constituted prior to January 1, 1898 (Water Bonds)	579,224 60		
The City of Brooklyn, as constituted prior to January 1, 1898	397,593 71		
Long Island City	2,116 67		
		7,160,614 84	
			$46,443,695 72

Statement of Bonds and Stock of The City of New York, Payable in the Year 1910 *from the Water Sinking Fund of The City of New York, Under the Provisions of Section* 10 *of Article* 8 *of the Constitution of the State of New York, and Section* 208 *of the Greater New York Charter, as Amended.*

Three per cent. Corporate Stock of The City of New York, for the New Aqueduct, issued in pursuance of section 34, chapter 490, Laws of 1883 and sections 169 and 170 of chapter 378, Laws of 1897, payable October 1, 1910	$200,000 00

Statement of Bonds and Stock of The City of New York, as Constituted prior to January 1, 1898, *Payable in the Year* 1910 *from the Sinking Fund for the Redemption of the City Debt (No.* 1), *as Provided by Section* 213 *of the Greater New York Charter, as Amended.*

Four per cent. Consolidated Stock of The City of New York, issued in pursuance of chapter 322, Laws of 1871 and chapter 383, Laws of 1878, payable November 1, 1910	$2,800,000 00

Statement of Bonds and Stock of The City of New York as Constituted Prior to January 1, 1898, *Payable in the Year* 1910 *from the Sinking Fund for the Redemption of the City Debt (No.* 1), *as Provided by Section* 229 *of the Greater New York Charter, as Amended.*

Two and one-half per cent. Consolidated Stock of The City of New York for Constructing a Bridge over the Harlem River, issued in pursuance of chapter 487, Laws of 1885; chapter 573, Laws of 1888, and chapter 249, Laws of 1890, payable November 1, 1910	$14,500 00
Three per cent. Consolidated Stock of The City of New York, for Constructing a Bridge over the Harlem River, issued in pursuance of chapter 487, Laws of 1885, chapter 573, Laws of 1888 and chapter 249, Laws of 1890, payable November 1, 1910	16,650 00
Three per cent. Consolidated Stock of The City of New York, for Constructing a Bridge over the Harlem River, issued in pursuance of chapter 487, Laws of 1885 and Chapter 573, Laws of 1888, payable November 1, 1910	178,300 00
Three per cent. Consolidated Stock of The City of New York, Armory Bonds, issued under the provisions of chapter 299, Laws of 1883, chapter 487, Laws of 1886, chapter 330, Laws of 1887 and chapter 485, Laws of 1890, payable November 1, 1910	1,133,566 12
Three and one-half per cent. Consolidated Stock of The City of New York for the payment of Awards, Costs, Charges and Expenses, Certified by the Change of Grade Damage Commission, issued in pursuance of sections 132 and 134 of the New York City Consolidation Act of 1882 and chapter 537, Laws of 1893, and chapter 567, Laws of 1894, payable November 1, 1910	300,000 00
Three per cent. Consolidated Stock of The City of New York, for Repaving Streets and Avenues, issued in pursuance of chapter 346, Laws of 1889, payable November 1, 1910	1,000,000 00

Five per cent. Consolidated Stock of The City of New York, Dock Bonds, issued in pursuance of chapter 574, Laws of 1871 and chapter 383, Laws of 1878, payable November 1, 1910	520,000 00
Six per cent. Assessment Fund Stock of The City of New York, issued in pursuance of chapter 565, section 7, Laws of 1865 and chapter 304, Laws of 1874, payable November 1, 1910	900,450 00
	$4,063,466 12

Statement of Bonds of the City of Brooklyn, as Constituted Prior to January 1, 1898, Payable in the Year 1910 from the Water Sinking Fund of the City of Brooklyn, Under the Provisions of Chapter 396 of the Laws of 1859, and Acts Amendatory Thereof and Supplementary Thereto.

Four per cent. Permanent Water Loan Bonds of the City of Brooklyn, issued in pursuance of section 11, title 15 of chapter 583 of the Laws of 1888, payable January 1, 1910	$1,400,000 00
Seven per cent. Permanent Water Loan Bonds of the City of Brooklyn, issued in pursuance of chapter 396, Laws of 1859; chapter 47, Laws of 1871, and chapter 882, of the Laws of 1872, payable July 1, 1910	7,000 00
Seven per cent. Permanent Water Loan Bonds of the City of Brooklyn, issued in pursuance of chapter 396, Laws of 1859; chapter 47, Laws of 1871, and chapter 882 of the Laws of 1872, payable January 1, 1910	431,000 00
	$1,838,000 00

Statement of Bonds of Long Island City as Constituted Prior to January 1, 1898, Payable in the Year 1910 from the Sinking Fund of Long Island City for the Redemption of Revenue Bonds, Under the Provisions of Chapter 782 of the Laws of 1895.

Four per cent. Refunded Revenue Bonds of 1895, issued in pursuance of chapter 506 of the Laws of 1884 and chapter 258 of the Laws of 1890, payable May 1, 1910	$77,000 00

Statement of Bonds Payable in the Year 1910 from Assessments.

The City of New York.

Three per cent. Assessment Bonds of The City of New York, issued in pursuance of sections 181 and 183 of chapter 378, Laws of 1897, payable on or after November 1, 1905	$2,500 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of sections 181 and 183 of chapter 378, Laws of 1897, payable on or after November 1, 1906	1,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of sections 181 and 183 of chapter 378, Laws of 1897, payable on or after November 1, 1907	10,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of sections 181 and 183 of the Greater New York Charter as amended, payable on or after November 1, 1908	7,500 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of sections 181 and 183 of the Greater New York Charter as amended, payable on or after November 1, 1909	4,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after November 1, 1903	550,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after July 1, 1904	500,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after November 1, 1904	1,503,129 49	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after November 1, 1905	700,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after November 1, 1907	600,000 00	
Three per cent. Assessment Bonds of The City of New York, issued in pursuance of section 181, chapter 378 of the Laws of 1897, payable on or after November 1, 1910	400,000 00	
Three per cent. Assessment Bonds of The City of New York, Greater New York Charter, payable on or after November 1, 1907	650,000 00	
Three per cent. Assessment Bonds of The City of New York, Greater New York Charter, payable on or after January 2, 1908	569,380 00	
Three per cent. Assessment Bonds of The City of New York, Greater New York Charter, payable on or after November 1, 1908	415,000 00	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1899	18,181 33	
Three per cent. Assessment Bonds, for Expenses of Commissioners Appointed for the Purpose of Settling and Establishing Permanently the Location and Boundaries of Fort Washington Ridge road, section 144, Consolidation Act of 1882; chapter 114, Laws of 1892, and section 170 of chapter 378, Laws of 1897, payable on or after November 1, 1890	242 75	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1900	11,514 65	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after January 1, 1901	356 55	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1901	16,828 80	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1902	9,000 00	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1903	12,097 46	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1904	2,600 00	
Three per cent. Assessment Bonds, for Expenses of Commissioners in Establishing, etc., Location, etc., of Fort Washington Ridge road, chapter 114, Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1905	61,676 00	
Three per cent. Assessment Bonds, for the Improvement of Streets and Avenues in the Twenty-sixth Ward of the Borough of Brooklyn, issued in pursuance of chapter 301 of the Laws of 1892, and section 181 of chapter 378, Laws of 1897, payable on or after November 1, 1904	50,000 00	
Three per cent. Gold, Exempt Assessment Bonds of The City of New York, for Street and Park Openings, issued in pursuance of the Greater New York Charter as amended, payable on or after November 1, 1906	971,000 00	
Three per cent. Assessment Bonds of The City of New York, for the Redemption of Town Improvement Bonds of the Town of New Lots, issued in pursuance of sections 181 and 184 of the Greater New York Charter as amended, payable on or after November 1, 1906	20,170 80	
		$7,086,177 83

The City of New York, as Constituted Prior to January 1, 1898.

Three per cent. Assessment Bonds, for the Improvement of Harlem River and Spuyten Duyvil Creek, issued in pursuance of chapter 214, Laws of 1883, payable on or after November 1, 1888	$75,000 00	
Three per cent. Assessment Bonds, for Payment of the Expenses of the Commissioners Appointed for the Purpose of Settling and Establishing Permanently the Location and Boundaries of Fort Washington Ridge road, issued in pursuance of section 144, New York City Consolidation Act of 1882, and chapter 114, Laws of 1892, payable on or after November 1, 1895	36,042 29	
Three per cent. Assessment Bonds, for Payment of the Expenses of the Commissioners Appointed for the Purpose of Settling and Establishing Permanently the Location and Boundaries of Fort Washington Ridge road, issued in pursuance of section 144, New York City Consolidation Act of 1882, and chapter 114, Laws of 1892, payable on or after November 1, 1896	5,887 62	
Three per cent. Assessment Bonds, for Payment of the Expenses of the Commissioners Appointed for the Purpose of Settling and Establishing Permanently the Location and Boundaries of Fort Washington Ridge road, issued in pursuance of section 144, New York City Consolidation Act of 1882, and chapter 114, Laws of 1892, payable on or after November 1, 1897	13,018 70	
Three per cent. Assessment Bonds, for Payment of the Expenses of the Commissioners Appointed for the Purpose of Settling and Establishing Permanently the Location and Boundaries of Fort Washington Ridge road, issued in pursuance of section 144, New York City Consolidation Act of 1882, and chapter 114, Laws of 1892, payable on or after November 1, 1898	30,587 60	
		160,536 21

City of Brooklyn.

Three and one-half per cent. (Gold) Flatbush Sewer Assessment Bonds, Series "E," issued in pursuance of chapter 1001 of the Laws of 1895, and section 1 of chapter 648 of the Laws of 1895, amending section 4 of title 4 of chapter 583 of the Laws of 1888, payable August 1, 1910	.....	10,000 00
Three per cent. Eighth Ward Improvement Bonds of the City of Brooklyn, issued in pursuance of chapter 365 of the Laws of 1889, payable July 1, 1910	.....	100,000 00

Town of New Lots.

Four per cent. Street Improvement Bonds, Series "E," issued in pursuance of chapter 311, Laws of 1886, payable July 15, 1910	.....	25,000 00

Town of New Utrecht.

Five per cent. Board of Street Improvement Bonds, Series No. 1, issued in pursuance of chapter 582, Laws of 1893, payable January 1, 1910	$2,000 00	
Five per cent. Board of Street Improvement Bonds, Series No. 2, issued in pursuance of chapter 582, Laws of 1893, payable January 1, 1910	2,000 00	
Five per cent. Board of Street Improvement Bonds, Series No. 3, issued in pursuance of chapter 582, Laws of 1893, payable January 1, 1910	2,000 00	
Five per cent. Board of Street Improvement Bonds, Series No. 4, issued in pursuance of chapter 582, Laws of 1893, payable January 1, 1910	2,000 00	
Five per cent. Board of Street Improvement Bonds, Series No. 5, issued in pursuance of chapter 582, Laws of 1893, payable January 1, 1910	2,000 00	
		10,000 00

Long Island City.

Four and one-half per cent. General Improvement Bonds, Series 6, for Trunk Sewer and Its Appurtenances in Broadway, Academy Street, Graham Avenue, Steinler Street and Steinway Avenue, issued in pursuance of chapter 644, Laws of 1893, payable December 10, 1909	50,000 00
	$7,441,714 04

Statement of Bonds Payable in the Year 1910 from Water Revenue.

Village of College Point.

Seven per cent. Water Bonds, issued in pursuance of chapter 609 of the Laws of 1873, payable July 1, 1910	$12,000 00

Village of Whitestone.

Four and one-half per cent. Water Bonds, Series No. 4, issued in pursuance of chapter 181, Laws of 1875, and amendments, payable January 1, 1910	500 00
	$12,500 00

Statement of Stock of The City of New York, Payable from Taxation Issued After January 1, 1898, and prior to September 30, 1909, by Authority of Existing Statutes, and of the Sums Required to be Included in the Budget for the Year 1910, and Subsequent Years, and to Be Paid Into the "Sinking Fund of The City of New York," which, with the accumulation of interest thereon, shall be sufficient to redeem said stock by the time the same shall be payable, as provided by section 206 of the Greater New York Charter, as amended.

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for and on Account of Armories	Chapter 299, Laws of 1883, and amendments	3	1923	.....	$19,500 00	
	Chapter 299, Laws of 1883, and amendments	3	1940	.....	38,563 49	
Corporate Stock for Armories and Sites therefor	Section 134 of chapter 212, Laws of 1898, and section 169 of chapter 378, Laws of 1897	3	1930	.....	115,681 32	
	Section 134 of chapter 212, Laws of 1898, and section 169 of chapter 378, Laws of 1897	3	1940	.....	17,500 00	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3½	1941	.....	550,000 00	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3	1942	.....	566,653 27	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3	1952	.....	52,500 00	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3	1953	.....	365,000 00	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3½	1953	.....	100,000 00	
	Section 134 of chapter 212, Laws of 1898, and section 169 of the Greater New York Charter, as amended	3½	1954	.....	250,000 00	$25,803 18
Corporate Stock for Change of Grade Damage Commission	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1928	.....	115,480 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3½	1940	.....	250,000 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1941	.....	217,720 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1942	.....	187,500 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1952	.....	7,000 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1953	.....	32,500 00	11,774 84

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for Botanical Museum and Herbarium	Chapter 285, Laws of 1891; chapter 103 Laws of 1894; chapter 717, Laws of 1896	3	1928	.....	175,000 00	
	Chapter 285, Laws of 1891; chapter 103 Laws of 1894; chapter 717, Laws of 1896	3½	1928	.....	200,000 00	8,322 45
Corporate Stock for Improvement, etc., New York Botanical Garden, Bronx Park	Sections 48, 169 and 613 of chapter 378, Laws of 1897	3	1941	.....	125,000 00	
	Sections 48, 169 and 613 of chapter 378, Laws of 1897	3	1942	.....	50,000 00	
	Sections 48, 169 and 613 of chapter 378, Laws of 1897	3	1952	.....	25,000 00	2,580 31
Corporate Stock for the Improvement of the Botanical Garden and the Equipment of the Botanical Museum and Herbarium in Bronx Park	Sections 47 and 169, Greater New York Charter, as amended	3	1952	.....	44,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3½	1952	.....	50,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	20,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3½	1954	.....	100,000 00	1,944 14
Corporate Stock for Court House for Appellate Division of the Supreme Court	Chapter 196, Laws of 1897	3½	1928	.....	250,000 00	
	Chapter 196, Laws of 1897	3½	1929	.....	375,000 00	
	Chapter 196, Laws of 1897	3	1929	.....	85,000 00	15,016 78
Corporate Stock for Construction and Equipment of Interior Public Baths and for Acquisition of Sites therefor in The City of New York	Sections 48 and 169 of the Greater New York Charter	3	1942	.....	150,000 00	1,989 36
Corporate Stock for Interior Public Baths	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	72,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1952	.....	250,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	50,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	100,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	350,000 00	7,451 52
Corporate Stock for New Buildings, etc., for the Department of Health	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	107,500 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	74,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	250,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1954	.....	1,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	200,000 00	5,781 48
Corporate Stock for Buildings, etc., for Department of Correction	Chapter 626, Laws of 1896; sections 48 and 169, chapter 378, Laws of 1897	3	1928	.....	40,000 00	
	Chapter 626, Laws of 1896; sections 48 and 169, chapter 378, Laws of 1897	3½	1928	.....	300,000 00	
	Chapter 626, Laws of 1896; sections 48 and 169, chapter 378, Laws of 1897	3½	1929	.....	650,000 00	
	Chapter 626, Laws of 1896; sections 48 and 169, chapter 378, Laws of 1897	3½	1952	.....	150,000 00	22,234 85
Corporate Stock for Buildings, etc., for Department of Public Charities	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1929	.....	31,517 50	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1940	.....	125,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1941	.....	10,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1942	.....	10,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1940	.....	162,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1941	.....	25,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1942	.....	51,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	405,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	127,500 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	175,000 00	
	Chapter 724, Laws of 1896; section 48 of chapter 378, Laws of 1897; sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	200,000 00	14,188 31
Corporate Stock for Buildings, etc., Wards Island and Central Islip	Chapter 537, Laws of 1892	3	1929	.....	2,000 00	45 40
Corporate Stock for Public Building, Crotona Park	Chapter 248, Laws of 1894	3	1914	.....	2,500 00	134 41
Corporate Stock for Addition to Public Building, Crotona Park	Chapter 404, Laws of 1896	3½	1928	.....	75,000 00	1,576 44
Corporate Stock for the Construction of a new Bellevue Hospital	Sections 47 and 169 of the Greater New York Charter as amended	3½	1954	.....	50,000 00	443 27
Corporate Stock for Public Baths on Rivington Street	Chapter 122, Laws of 1896	3	1928	.....	20,000 00	
	Chapter 122, Laws of 1896	3½	1920	.....	50,000 00	1,493 25
Corporate Stock for Hospital Building, Gouverneur slip	Chapter 703, Laws of 1894; chapter 395, Laws of 1895	3½	1928	.....	50,000 00	
	Chapter 703, Laws of 1894; chapter 395, Laws of 1895	3½	1930	.....	85,000 00	2,837 60
Corporate Stock for Completing the Construction of Gouverneur Hospital, in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter as amended	3	1953	.....	8,000 00	
	Sections 47 and 169 of the Greater New York Charter as amended	3½	1954	.....	100,000 00	960 26
Corporate Stock for the Construction of the New Harlem Hospital	Sections 48 and 169 chapter 378, Laws of 1897	3	1952	.....	13,000 00	
	Sections 48 and 169, chapter 378, Laws of 1897	3½	1954	.....	200,000 00	1,892 87
Corporate Stock for Acquiring Title to Lands on Lenox Avenue and One Hundred and Thirty-sixth and One Hundred and Thirty-seventh Streets, Borough of Manhattan, for a Site for a Public Hospital	Chapter 723, Laws of 1897, and section 170 of the Greater New York Charter as amended	3	1952	.....	220,321 70	2,029 86
Corporate Stock for the Construction of a New Hospital in the Borough of The Bronx	Sections 47 and 169 of the Greater New York Charter as amended	3	1953	.....	11,000 00	101 34
Corporate Stock for a New Fordham Hospital	Sections 47 and 169 of the Greater New York Charter as amended	3	1953	.....	35,000 00	
	Sections 47 and 169 of the Greater New York Charter as amended	3½	1954	.....	50,000 00	765 73

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for Extension of Building of Metropolitan Museum of Art	Chapter 347, Laws of 1895; chapter 638, Laws of 1897	3½	1928	.....	600,000 00	
	Chapter 347, Laws of 1895; chapter 638, Laws of 1897	3	1919	.....	50,000 00	
	Chapter 347, Laws of 1895; chapter 638, Laws of 1897	3	1940	.....	70,000 00	
	Chapter 347, Laws of 1895; chapter 638, Laws of 1897	3	1941	.....	50,000 00	
	Chapter 347, Laws of 1895; chapter 638, Laws of 1897	3	1942	.....	30,000 00	15,859 78
Corporate Stock, Fitting up, etc., Building in Central Park, Metropolitan Museum of Art	Chapter 14, Laws of 1900; and sections 47 and 169 of the Greater New York Charter, as amended	3	1941	.....	55,000 00	
	Chapter 14, Laws of 1900; and sections 47 and 169 of the Greater New York Charter, as amended	3	1942	.....	101,000 00	
	Chapter 14, Laws of 1900; and sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	14,000 00	
	Chapter 14, Laws of 1900; and sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	20,000 00	2,414 89
Corporate Stock for Additions to Buildings of American Museum of Natural History	Chapter 213, Laws of 1897	3½	1928	.....	250,000 00	
	Chapter 213, Laws of 1897	3½	1929	.....	150,000 00	8,407 70
	Chapter 175, Laws of 1896	3½	1928	.....	300,000 00	
	Chapter 175, Laws of 1896	3½	1929	.....	150,000 00	9,458 66
Corporate Stock for Furnishing and Equipping Buildings of American Museum of Natural History	Chapter 185, Laws of 1900	3	1940	.....	150,000 00	
	Chapter 185, Laws of 1900	3	1941	.....	200,000 00	4,830 81
Corporate Stock for the Construction and Installment of a New Heating Plant for the American Museum of Natural History	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	20,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	55,500 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	50,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	50,000 00	1,599 52
Corporate Stock for the Completion of the Construction of the American Museum of Natural History, in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	35,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	17,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	50,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	50,000 00	1,395 77
Corporate Stock for Additions to Buildings, Museum of Arts and Sciences, Brooklyn	Chapter 406, Laws of 1896	3½	1930	.....	300,000 00	
	Chapter 406, Laws of 1896	3	1941	.....	300,000 00	10,458 94
Corporate Stock for the Completion of an Addition to the Brooklyn Institute of Arts and Sciences	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	49,500 00	456 05
Corporate Stock for the Construction of a New Municipal Building and an Additional Court Building in the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	7,500 00	69 10
Corporate Stock for the Construction of the Easterly Wing of the Brooklyn Institute of Arts and Sciences	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	150,000 00	1,329 82
Corporate Stock for Acquiring Property for a Site for the Thirteenth District Municipal Court, in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	127,000 00	1,170 07
Corporate Stock for Criminal Court House	Chapter 371, Laws of 1887	3	1923	.....	20,000 00	548 56
Corporate Stock for Improving and Equipping the Brownstone Building in the Ctiy Hall Park, Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, chapter 409, Laws of 1904	3	1953	.....	1,000 00	9 58
Corporate Stock for the Completion of the Construction of the Criminal Court Building, in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	97,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	35,000 00	1,216 13
Corporate Stock, Lands, etc., College of The City of New York	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897; section 48, Greater New York Charter, as amended	3	1941	.....	14,860 73	
	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897; section 48, Greater New York Charter, as amended	3	1942	.....	121,118 84	
	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897; section 48, Greater New York Charter, as amended	3	1942	.....	16,051 78	2,016 29
Corporate Stock for the Construction of Buildings for the College of The City of New York, in the Borough of Manhattan	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3	1952	.....	500,000 00	
	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3½	1954	.....	100,000 00	5,493 12
Corporate Stock for the Construction of a Dormitory in the Medical College Building in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	50,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	3,000 00	488 30
Corporate Stock for the Construction, etc., of a Borough Building, Borough of Richmond	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	44,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	93,491 45	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	50,000 00	1,738 43
Corporate Stock for a Borough Hall in the Borough of Queens	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	40,000 00	368 53
Corporate Stock for the Construction of the New Richmond County Jail	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	3,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	55,000 00	534 36
Corporate Stock, Court House, One Hundred and Sixty-first Street and Third Avenue	Chapter 209, Laws of 1897	3½	1940	.....	147,078 84	2,036 14
Corporate Stock for the Construction of a Court House for the Second District Municipal Court and the Sixth District Magistrates' Court, in the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	35,000 00	322 46
Corporate Stock for Repairs to the County Court House, County of New York	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	5,000 00	46 07

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for the Construction and Equipment of a Court House in the Borough of The Bronx	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	10,000 00	92 13
Corporate Stock for Making Alterations and Repairs to the Queens County Court House Building at Long Island City, Borough of Queens	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	5,000 00	46 07
Corporate Stock for School Houses and Sites Therefor	Chapter 458, Laws of 1884, and amendments thereto	3½	1928	.....	1,820,785 41	
	Chapter 458, Laws of 1884, and amendments thereto	3½	1940	.....	300,000 00	
	Chapter 458, Laws of 1884, and amendments thereto	3	1928	.....	1,174,055 46	
	Section 169, Greater New York Charter.	3½	1942	.....	1,800,000 00	
	Section 169, Greater New York Charter.	3½	1952	.....	1,000,000 00	
	Section 169, Greater New York Charter.	3	1953	.....	50,000 00	
	Section 169, Greater New York Charter.	3½	1954	.....	2,600,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	750,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1952	.....	500,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	150,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	3,200,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	3,000,000 00	194,301 96
Corporate Stock for School Houses and Sites, Manhattan and The Bronx	Section 48 of chapter 378, Laws of 1897.	3	1929	.....	1,656,327 30	
	Section 48 of chapter 378, Laws of 1897.	3½	1929	.....	1,700,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1940	.....	8,273 20	
	Section 48 of chapter 378, Laws of 1897.	3½	1940	.....	1,900,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	1,000,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1941	.....	1,000,000 00	124,357 68
Corporate Stock for School Houses and Sites, Borough of Brooklyn	Section 48 of chapter 378, Laws of 1897.	3	1929	.....	85,615 00	
	Section 48 of chapter 378, Laws of 1897.	3	1940	.....	7,385 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1929	.....	1,800,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1940	.....	2,190,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	300,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1941	.....	900,000 00	86,087 19
Corporate Stock for School Houses and Sites, Borough of Queens	Section 48 of chapter 378, Laws of 1897.	3	1929	.....	7,650 00	
	Section 48 of chapter 378, Laws of 1897.	3	1940	.....	49,350 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1929	.....	500,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1940	.....	150,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	200,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1941	.....	200,000 00	18,880 91
Corporate Stock for School Houses and Sites, Borough of Richmond	Section 48 of chapter 378, Laws 6f 1897.	3	1940	.....	47,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1929	.....	100,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	150,000 00	4,714 61
Corporate Stock for High Schools and Sites Therefor	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3	1929	.....	246,851 80	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3	1940	.....	26,419 45	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3½	1940	.....	813,483 90	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3½	1941	.....	800,000 00	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3	1941	.....	112,637 40	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3½	1953	.....	75,000 00	
	Chapter 412, Laws of 1897; sections 169 and 170, Greater New York Charter, as amended	3	1953	.....	1,000 00	29,660 85
Corporate Stock for High Schools and Sites of Richmond	Sections 48 and 169 of chapter 378, Laws of 1897.	3	1941	.....	100,000 00	
	Sections 48 and 169 of chapter 378, Laws of 1897.	3	1953	.....	75,000 00	2,075 38
Corporate Stock for Department of Docks and Ferries	Section 180 of chapter 378, Laws of 1897.	3	1928	.....	2,000,000 00	
	Section 180 of chapter 378, Laws of 1897.	3½	1929	.....	3,000,000 00	
	Section 180 of chapter 378, Laws of 1897.	3	1940	.....	750,000 00	
	Section 180 of chapter 378, Laws of 1897.	3½	1940	.....	2,250,000 00	
	Section 180 of chapter 378, Laws of 1897.	3	1941	.....	1,000,000 00	
	Section 180 of chapter 378, Laws of 1897.	3	1942	.....	850,000 00	
	Section 180 of chapter 378, Laws of 1897.	3½	1952	.....	5,000,000 00	
	Section 180 of chapter 378, Laws of 1897.	3½	1953	.....	2,500,000 00	
	Section 180 of chapter 378, Laws of 1897.	3½	1954	.....	2,650,000 00	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3	1928	.....	75,294 54	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3½	1928	.....	1,600,000 00	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3	1940	.....	624,705 46	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3½	1940	.....	250,000 00	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3	1941	.....	800,000 00	
	Chapter 246, Laws of 1896, as amended by chapter 668, Laws of 1897; section 180, chapter 378, Laws of 1897	3½	1941	.....	650,000 00	
	Sections 47, 169 and 180 of the Greater New York Charter, as amended	3	1952	.....	1,000,000 00	
	Sections 47, 169 and 180 of the Greater New York Charter, as amended	3½	1953	.....	500,000 00	
	Sections 47, 169 and 180 of the Greater New York Charter, as amended	3½	1954	.....	500,000 00	351,197 92
Corporate Stock for New Bridge Connecting Pelham Bay Park and City Island	Chapter 638, Laws of 1894; chapter 507, Laws of 1896	3	1919	.....	135,000 00	
	Chapter 638, Laws of 1894; chapter 507, Laws of 1896	3	1941	.....	80,000 00	6,085 10
Corporate Stock for Bridge over Eastchester Bay in Pelham Bay Park	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	10,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1952	.....	2,500 00	
	Section 48 of chapter 378, Laws of 1897.	3	1953	.....	2,500 00	
	Sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	52,500 00	666 19
Corporate Stock for Constructing a Bridge over Harlem River at Willis Avenue	Chapter 147, Laws of 1894	3½	1928	.....	1,029,844 83	
	Chapter 147, Laws of 1894	3½	1930	.....	500,000 00	
	Chapter 147, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1941	.....	35,000 00	
	Chapter 147, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1942	.....	25,000 00	
	Chapter 147, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1952	.....	194,000 00	
	Chapter 147, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897, as amended	3	1953	.....	36,155 17	35,613 06
Corporate Stock for the Construction of the Approach of the Bridge over the Harlem River at Willis Avenue, from the Southern Boulevard, in the Borough of The Bronx	Sections 47 and 169, Greater New York Charter, as amended	3½	1954	.....	150,000 00	1,329 82
Corporate Stock for the Payment of Awards for Lands Acquired for the Construction of the Bridge across the Harlem River, between First Avenue and Willis Avenue	Sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	31,671 87	291 80

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for Constructing Bridges over Railroad Tracks at Gerard, Walton and River Avenues and Fort Independence Street	Chapter 645, Laws of 1897	3	1922	.....	33,000 00	
	Chapter 645, Laws of 1897	3½	1928	.....	50,000 00	
	Chapter 645, Laws of 1897	3	1941	.....	2,000 00	2,102 64
Corporate Stock for New East River Bridge	Chapter 789, Laws of 1895	3½	1928	.....	2,000,000 00	
	Chapter 789, Laws of 1895	3	1929	.....	1,287,823 66	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1929	.....	700,000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1940	.....	4,500,000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1941	.....	750,000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1952	.....	2,000 000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3	1953	.....	1,555,000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1953	.....	1,000,000 00	
	Chapter 789, Laws of 1895, and section 170 of chapter 378, Laws of 1897	3½	1954	.....	3,700,000 00	228,943 60
Corporate Stock for Constructing a Temporary Bridge over Bronx River at Westchester Avenue	Chapter 24, Laws of 1897, and sections 169 and 170, Greater New York Charter, as amended	3	1919	.....	16,000 00	
	Chapter 24, Laws of 1897, and sections 169 and 170, Greater New York Charter, as amended	3	1953	.....	500 00	597 15
Corporate Stock for Bridge over Bronx River at Westchester Avenue	Chapter 716, Laws of 1896	3	1941	.....	75,000 00	994 67
Corporate Stock for the Construction of a Bridge over the Bronx River at East One Hundred and Seventy-seventh Street	Chapter 657, Laws of 1897, sections 169 and 170, Greater New York Charter, as amended	3	1953	.....	10,000 00	92 13
Corporate Stock for the Construction of a Bridge over the Bronx River and of the Approaches to the Bridge over the tracks of the New York and Harlem Railroad at East Two Hundred and Thirty-third Street, in the Borough of The Bronx	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	25,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	1,000 00	239 91
Corporate Stock for a Bridge over Flushing Creek, between Jackson Avenue, Newtown, and Broadway, Flushing, in the Borough of Queens	Sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	36,000 00	331 67
Corporate Stock for the Construction of a Bridge over Garretsen's Creek, at Avenue U, in the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	16,000 00	147 41
Corporate Stock for the Construction of a Bridge over Gowanus Canal, in the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	195,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1954	.....	15,000 00	1,943 87
Corporate Stock for Bridge over Newtown Creek, from Grand street, Borough of Brooklyn, to Grand street, Borough of Queens	Sections 48 and 169, chapter 378, Laws of 1897	3	1940	.....	180,000 00	
	Sections 48 and 169 of the Greater New York Charter, as amended	3	1952	.....	20,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	10,000 00	2,663 62
Corporate Stock for Constructing a Bridge over Newtown Creek, from Manhattan avenue, in the Borough of Brooklyn, to Vernon avenue, in the Borough of Queens	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	250,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	350,000 00	5,406 21
Corporate Stock for the Construction of a Bridge across Prospect Avenue on the line of Seeley Street, in the Twenty-ninth Ward of the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	8,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	14,000 00	205 60
Corporate Stock for Bridge over East River, between the Boroughs of Manhattan and Queens	Section 48, chapter 378, Laws of 1897.	3	1928	.....	20,000 00	
	Section 48, chapter 378, Laws of 1897.	3	1940	.....	27,000 00	
	Section 48, chapter 378, Laws of 1897.	3	1941	.....	10,000 00	
	Section 48, chapter 378, Laws of 1897.	3½	1941	.....	750,000 00	
	Section 48, chapter 378, Laws of 1897.	3	1953	.....	75,000 00	
	Section 48, chapter 378, Laws of 1897.	3½	1953	.....	250,000 00	
	Section 48, chapter 378, Laws of 1897.	3½	1954	.....	450,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	300,000 00	20,974 98
Corporate Stock for Bridge over East River, between the Boroughs of Manhattan and Brooklyn	Section 48, chapter 378, Laws of 1897.	3	1928	.....	20,000 00	
	Section 48, chapter 378, Laws of 1897.	3	1940	.....	40,000 00	
	Section 48, chapter 378, Laws of 1897.	3½	1941	.....	750,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	240,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	510,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	93,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	1,750,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	500,000 00	39,244 88
Corporate Stock for Bridge over the Harlem River, from One Hundred and Forty-fifth to One Hundred and Forty-ninth Street	Chapter 986, Laws of 1895	3½	1929	.....	1,000,000 00	
	Chapter 986, Laws of 1895	3½	1941	.....	150,000 00	
	Chapter 719, Laws of 1900	3	1942	.....	79,620 44	
	Chapter 719, Laws of 1900	3½	1941	.....	250,000 00	27,612 76
Corporate Stock for Acquiring Lands for the Approaches to the Bridge over the Harlem River, from One Hundred and Forty-fifth Street to One Hundred and Forty-ninth Street	Chapter 986, Laws of 1895, sections 169 and 170, Greater New York Charter as amended	3½	1953	.....	250,000 00	
	Chapter 986, Laws of 1895, sections 169 and 170, Greater New York Charter as amended	3½	1954	.....	200,000 00	4,076 39
Corporate Stock for the Payment of Awards for the Change of Grade of Street and Avenues caused by Constructing a Bridge over the Harlem River at One Hundred and Forty-ninth Street	Chapter 986, Laws of 1895, section 169, Greater New York Charter as amended	3	1953	.....	165,000 00	1,520 17
Corporate Stock for Harlem River Bridge at Third Avenue	Chapter 413, Laws of 1892; chapter 716, Laws of 1896; chapter 660, Laws of 1897	3½	1929	.....	250,000 00	5,254 81
Corporate Stock for South Third Avenue Approach to Bridge over the Harlem River	Chapter 413, Laws of 1892; chapter 540, Laws of 1894	3½	1941	.....	800,000 00	
	Chapter 716, Laws of 1896; chapter 660, Laws of 1897	3	1941	.....	11,000 00	10,755 78

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for the Payment of Awards for Damages for the Change of Grade to Streets and Avenues Approaching the Bridge over the Harlem River at Third Avenue	Chapter 413, Laws of 1892; chapter 540, Laws of 1894; chapter 716, Laws of 1896; chapter 660, Laws of 1897; sections 169 and 170, Greater New York Charter as amended	3	1953	.....	9,499 59	
	Chapter 413, Laws of 1892; chapter 540, Laws of 1894; chapter 716, Laws of 1896; chapter 660, Laws of 1897; sections 169 and 170, Greater New York Charter as amended	3½	1954	.....	100,000 00	974 07
Corporate Stock for a Bridge across the Harlem River, from Two Hundred and Seventh Street, in the Borough of Manhattan, to One Hundred and Eighty-fourth Street, in the Borough of The Bronx	Sections 47 and 169 of the Greater New York Charter as amended	3	1952	.....	1,000 00	
	Sections 47 and 169 of the Greater New York Charter as amended	3	1953	.....	51,000 00	
	Sections 47 and 169 of the Greater New York Charter as amended	3½	1954	.....	100,000 00	1,374 74
Corporate Stock for the Construction of a Bridge to Extend East One Hundred and Eighty-ninth Street over the New York and Harlem Railroad	Chapter 211, Laws of 1897, and section 47 of the Greater New York Charter as amended	3	1952	.....	6,000 00	
	Chapter 211, Laws of 1897, and section 47 of the Greater New York Charter as amended	3	1953	.....	18,000 00	221 12
Corporate Stock for Bridge over Mott Haven Canal at One Hundred and Thirty-fifth Street	Chapter 623, Laws of 1896	3½	1941	.....	30,000 00	397 87
Corporate Stock for the Construction of a Bridge over the Tracks of the New York and Harlem Railroad at One Hundred and Fifty-third Street, etc.	Chapter 650, Laws of 1897, and section 170, chapter 378, Laws of 1897 as amended	3	1942	.....	50,000 00	
	Chapter 650, Laws of 1897, and section 170, chapter 378, Laws of 1897 as amended	3	1952	.....	25,000 00	
	Chapter 650, Laws of 1897, and section 170, chapter 378, Laws of 1897 as amended	3	1953	.....	20,000 00	1,077 71
Corporate Stock for the Construction of Bridges and Approaches in Connection with the Depression of the Port Morris Branch Railroad of the New York Central and Hudson River Railroad	Chapter 424, Laws of 1903; section 169 of the Greater New York Charter, as amended	3	1953	.....	3,525 00	32 48
Corporate Stock for Acquiring Land, Right of Way, etc., for the New Roadway and Route of the Spuyten Duyvil and Port Morris Railroad Company	Chapter 423, Laws of 1903; section 169 of the Greater New York Charter, as amended	3	1953	.....	551,025 00	5,076 67
Corporate Stock for the Acquisition of a Gore of Land at the Southeasterly Corner of William Street and the Present Property of the New York and Brooklyn Bridge	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	1,800 00	16 58
Corporate Stock for Public Park at Twenty-seventh and Twenty-eighth Streets and Ninth and Tenth Avenues	Chapter 320, Laws of 1887; chapter 69, Laws of 1895	3	1921	.....	1,247 90	38 45
Corporate Stock for Public Park at One Hundred and Eleventh and One Hundred and Fourteenth Streets, First Avenue and the East River	Chapter 746, Laws of 1894	3½	1928	.....	1,738,362 12	
	Chapter 746, Laws of 1894	3	1918	.....	170,033 00	
	Chapter 746, Laws of 1894	3	1929	.....	65,000 00	
	Chapter 746, Laws of 1894	3½	1940	.....	886,886 30	57,024 13
Corporate Stock, Public Park, Fifty-second and Fifty-fourth streets, Eleventh and Twelfth Avenues	Chapter 320, Laws of 1887 as amended; section 48 of the Greater New York Charter	3	1929	.....	7,161 70	
	Chapter 320, Laws of 1887 as amended; section 48 of the Greater New York Charter	3½	1941	.....	990,000 00	
	Chapter 320, Laws of 1887 as amended; section 48 of the Greater New York Charter	3	1941	.....	260,000 00	17,469 49
Corporate Stock, Silver Lake Park, Borough of Richmond	Chapter 434, Laws of 1897; chapter 653, Laws of 1900	3	1940	.....	115,000 00	1,644 36
Corporate Stock for Construction and Improvement of St. John's Park	Chapter 320, Laws of 1887; chapter 295, Laws of 1896	3	1916	.....	50,000 00	
	Chapter 320, Laws of 1887; chapter 295, Laws of 1896	3	1941	.....	15,000 00	2,343 10
Corporate Stock for Public Park, Eleventh Ward, bounded by Houston, Stanton, Pitt and Sheriff Streets	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3	1920	.....	198,779 25	
	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3	1940	.....	14,000 00	
	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3½	1940	.....	2,000,000 00	34,813 31
Corporate Stock to Pay the Awards, Costs, Charges and Expenses of Acquiring Title to Lands Required for Public Purposes	Section 169 of the Greater New York Charter	3	1942	.....	5,000 00	
	Section 169 of the Greater New York Charter	3	1952	.....	1,000 00	
	Section 169 of the Greater New York Charter	3	1953	.....	4,000 00	112 37
Corporate Stock for Construction and Improvement of Parkways	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1914	.....	100,000 00	
	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3½	1929	.....	100,000 00	
	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1940	.....	100,000 00	
	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1941	.....	10,000 00	
	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1942	.....	80,000 00	
	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1953	.....	10,000 00	9,972 01
Corporate Stock for Sea Wall, East River Park	Chapter 320, Laws of 1897; chapter 69 Laws of 1895	3	1911	.....	71,500 00	5,036 11
Corporate Stock for Improvement and Completion of Riverside Park and Drive	Chapter 666, Laws of 1897	3	1921	.....	153,500 00	
	Chapter 666, Laws of 1897	3	1940	.....	91,610 68	
	Chapter 666, Laws of 1897, and section 170 of chapter 378, Laws of 1897	3	1941	.....	75,000 00	
	Chapter 666, Laws of 1897, and section 170 of chapter 378, Laws of 1897	3	1942	.....	15,600 00	
	Chapter 666, Laws of 1897, and section 170 of chapter 378, Laws of 1897	3	1952	.....	3,000 00	7,392 58
Corporate Stock for Completion of Riverside Park and Drive	Chapter 74, Laws of 1894	3	1940	.....	1,500 00	19 89
Corporate Stock for Improvement of Public Parks, Parkways and Drives	Chapter 643, Laws of 1897	3	1921	.....	123,500 00	4,044 29
Corporate Stock for Improvement of Public Parks, Parkways and Drives in The City of New York	Chapter 194, Laws of 1896	3	1918	.....	15,000 00	597 20
Corporate Stock for the Improvement of Parks, Parkways, Playgrounds, Boulevards and Driveways in The City of New York	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	297,500 00	2,781 93
Corporate Stock for the Improvement of Parks, Parkways and Drives in The City of New York	Sections 47 and 169, chapter 378, Laws of 1897	3	1942	.....	100,000 00	
	Sections 47 and 169 chapter 378, Laws of 1897	3	1952	.....	431,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	308,500 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	450,000 00	

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	650,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1952	.....	150,000 00	
	Section 169 of the Greater New York Charter	3	1942	.....	25,000 00	
	Section 169 of the Greater New York Charter	3½	1942	.....	150,000 00	
	Section 169 of the Greater New York Charter	3	1952	.....	191,500 00	
	Section 169 of the Greater New York Charter	3½	1952	.....	100,000 00	
	Section 169 of the Greater New York Charter	3	1953	.....	200,500 00	
	Section 169 of the Greater New York Charter	3½	1954	.....	150,000 00	27,703 26
Corporate Stock, New Parks, etc., in Twenty-third and Twenty-fourth Wards, and in Westchester County	Chapter 79, Laws of 1889	2½	1909 1929	.....	5,000 00	
	Chapter 79, Laws of 1889	2½	1929	.....	8,000 00	
	Chapter 79, Laws of 1889	3	1929	.....	12,500 00	939 65
Corporate Stock for Public Park in Twelfth Ward	Chapter 56, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897	3	1921	.....	29,494 86	
	Chapter 56, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897	3	1941	.....	20,000 00	
	Chapter 56, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897	3	1942	.....	7,500 00	
	Chapter 56, Laws of 1894, and sections 169 and 170, chapter 378, Laws of 1897	3	1953	.....	5,048 94	1,388 74
Corporate Stock, Public Park bounded by One Hundred and Forty-fifth and One Hundred and Fifty-sixth Streets, Edgecombe and Bradhurst Avenues	Chapter 56, Laws of 1894,	3½	1929	.....	1,365,000 00	30,186 49
Corporate Stock for Public Park, Hester Street, etc	Chapter 320, Laws of 1887; chapter 293, Laws of 1895; chapter 676, Laws of 1897; chapter 320, Laws of 1887; section 48, chapter 378, Laws of 1897	3	1920	.....	31,907 53	
	Chapter 320, Laws of 1887; chapter 293, Laws of 1895; chapter 676, Laws of 1897; chapter 320, Laws of 1887; section 48, chapter 378, Laws of 1897	3½	1941	.....	658,000 00	
	Chapter 320, Laws of 1887; chapter 293, Laws of 1895; chapter 676, Laws of 1897; chapter 320, Laws of 1887; section 48, chapter 378, Laws of 1897	3½	1941	.....	1,392,000 00	
	Chapter 320, Laws of 1887; chapter 293, Laws of 1895; chapter 676, Laws of 1897; chapter 320, Laws of 1887; section 48, chapter 378, Laws of 1897	3	1941	.....	125,000 00	
	Chapter 320, Laws of 1887; chapter 293, Laws of 1895; chapter 676, Laws of 1897; chapter 320, Laws of 1887; section 48, chapter 378, Laws of 1897	3	1942	.....	1,000 00	30,018 46
Corporate Stock for William H. Seward Park	Section 169 of the Greater New York Charter	3	1942	.....	30,000 00	
	Section 169 of the Greater New York Charter	3	1952	.....	100,000 00	
	Section 169 of the Greater New York Charter	3	1953	.....	6,300 00	1,391 76
Corporate Stock for Lands, etc., for a Public Park at Seventy-sixth Street and East River	Chapter 320, Laws of 1887; chapter 69, Laws of 1895; sections 169 and 170 of the Greater New York Charter	3	1942	.....	11,541 28	
	Chapter 320, Laws of 1887; chapter 69, Laws of 1895; sections 169 and 170 of the Greater New York Charter	3	1953	.....	350,000 00	3,377 66
Corporate Stock for Constructing Improved Toilet Facilities in the City Parks in the Borough of Manhattan and Rebuilding Bank Rock Bridge in Central Park	Sections 48 and 169 of the Greater New York Charter, as amended	3	1952	.....	11,500 00	
	Sections 48 and 169 of the Greater New York Charter, as amended	3	1953	.....	21,500 00	306 60
Corporate Stock for Constructing Improved Public Toilet Facilities in the City Parks in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	3,000 00	27 64
Corporate Stock for Construction and Equipment of Public Comfort Stations in the Borough of Manhattan	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	10,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	16,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	50,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	100,000 00	1,590 40
Corporate Stock for the Construction and Equipment of Public Comfort Stations in the Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	60,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	68,000 00	1,182 93
Corporate Stock for Lands, etc., for a Public Park at Worth and Baxter Streets	Chapter 320, Laws of 1887; sections 169 and 170 of the Greater New York Charter	3	1942	.....	185,604 85	2,461 56
Corporate Stock for Construction and Improvement of Spuyten Duyvil Parkway, etc	Chapter 301, Laws of 1897	3	1923	.....	65,000 00	
	Chapter 301, Laws of 1897	3	1941	.....	30,000 00	2,285 95
Corporate Stock for Extension of Riverside Drive to Boulevard Lafayette	Chapter 665, Laws of 1897	3½	1928	.....	500,000 00	
	Chapter 665, Laws of 1897	3½	1929	.....	100,000 00	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3	1941	.....	170,000 00	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3	1942	.....	50,000 00	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3	1952	.....	18,703 16	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3	1953	.....	36,000 00	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3½	1953	.....	50,000 00	
	Chapter 665, Laws of 1897, and section 170 of chapter 378, Laws of 1897, as amended	3½	1954	.....	750,000 00	23,154 67
Corporate Stock for Improvement of Portion of Crotona Park, in which a Public Building is Located	Chapter 678, Laws of 1897	3	1928	.....	30,000 00	663 43
Corporate Stock for Improvement of Bronx Park for Buildings of New York Zoological Society	Chapter 510, Laws of 1897	3	1929	.....	63,000 00	
	Chapter 432, Laws of 1900	3½	1940	.....	100,000 00	
	Chapter 432, Laws of 1900	3	1941	.....	75,000 00	
	Chapter 432, Laws of 1900	3	1942	.....	125,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1951	.....	25,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	125,100 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1952	.....	49,900 00	7,227 35
Corporate Stock for the Improvement of that portion of the Bronx Park allotted to and set apart for the New York Zoological Society	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1953	.....	100,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended	3½	1954	.....	100,000 00	1,807 86
Corporate Stock for Asphalt Walks in Central Park	Chapter 575, Laws of 1887	3	1940	.....	2,000 00	26 52
Corporate Stock, Skate and Golf House, Van Cortlandt Park	Section 48, chapter 378, Laws of 1897	3	1940	.....	20,000 00	276 88

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock, Improvement of Central Park	Section 48, chapter 378, Laws of 1897	3	1941	.....	7,882 50	106 21
Corporate Stock for the Improvement of Prospect Park	Chapter 565, Laws of 1894; sections 169 and 170 of chapter 378, Laws of 1897	3	1942	.....	10,000 00	132 62
Corporate Stock, Entrance to Central Park at Sixty-sixth Street	Section 48, chapter 378, Laws of 1897	3	1940	.....	8,200 00	113 52
Corporate Stock, Improvement of Public Parks, Borough of Richmond	Section 48, chapter 378, Laws of 1897	3	1941	.....	5,000 00	
	Section 48, chapter 378, Laws of 1897	3	1942	.....	31,500 00	
	Section 48, chapter 378, Laws of 1897	3	1952	.....	1,000 00	
	Section 48, chapter 378, Laws of 1897	3	1953	.....	4,095 76	531 30
Corporate Stock, Redemption of Assessment Bonds for Improvement of Park Avenue above One Hundred and Sixth Street	Section 184, chapter 378, Laws of 1897	3	1929	.....	210,800 73	
	Section 184, chapter 378, Laws of 1897	3½	1929	.....	458,000 00	15,280 21
Corporate Stock for the Payment of Assessments Imposed upon the Mayor, Aldermen and Commonalty of The City of New York prior to January 1, 1898, and upon The City of New York subsequent to January 1, 1898	Section 139 of the New York City Consolidation Act of 1882; sections 169 and 170 of the Greater New York Charter, as amended	3½	1950	.....	1,000,000 00	8,865 49
Corporate Stock for Paving Jerome Avenue	Chapter 31, Laws of 1897	3½	1928	.....	60,000 00	
	Chapter 31, Laws of 1897	3	1928	.....	5,000 00	
	Chapter 31, Laws of 1897	3	1952	.....	1,000 00	
	Chapter 31, Laws of 1897	3	1953	.....	6,000 00	1,436 59
Corporate Stock for Repaving Streets and Avenues	Chapter 87, Laws of 1897	3½	1928	.....	250,000 00	
	Chapter 87, Laws of 1897	3	1928	.....	310,000 00	12,384 20
Corporate Stock, Repaving Streets and Avenues	Chapter 35, Laws of 1892	3½	1929	.....	300,000 00	6,305 77
Corporate Stock for Repaving Streets and Avenues	Chapter 475, Laws of 1895	3½	1940	.....	450,000 00	5,968 07
Corporate Stock for the Repaving of Streets	Section 48 of chapter 378, Laws of 1897	3½	1940	.....	2,000,000 00	
	Section 48 of chapter 378, Laws of 1897	3	1941	.....	24,000 00	
	Section 48 of chapter 378, Laws of 1897	3½	1941	.....	2,000,000 00	
	Section 48 of chapter 378, Laws of 1897	3	1953	.....	32,500 00	
	Section 169, Greater New York Charter	3½	1942	.....	2,000,000 00	
	Section 169, Greater New York Charter	3	1952	.....	25,000 00	
	Section 169, Greater New York Charter	3½	1952	.....	1,500,000 00	
	Section 169, Greater New York Charter	3	1953	.....	610,000 00	
	Section 169, Greater New York Charter	3½	1954	.....	3,000,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3½	1953	.....	750,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3½	1954	.....	150,000 00	136,451 74
Corporate Stock, Grading and Paving Grand Street, Borough of Brooklyn	Chapter 30, Laws of 1897	3	1940	.....	10,200 00	135 28
Corporate Stock for the Payment of the Cost of the Grading, Curbing and Paving of Bedford Avenue, from Eastern Parkway to Flatbush Avenue, in the Borough of Brooklyn	Chapter 764, Laws of 1900; chapter 590, Laws of 1901; section 169, Greater New York Charter, as amended	3	1924	.....	21,000 00	784 12
Corporate Stock for Construction of Melrose Avenue Viaduct	Chapter 680, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3½	1928	.....	140,000 00	
	Chapter 680, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3	1941	.....	20,000 00	
	Chapter 680, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3	1952	.....	5,000 00	
	Chapter 680, Laws of 1897, and sections 169 and 170 of the Greater New York Charter, as amended	3	1953	.....	57,000 00	3,787 89
Corporate Stock for Acquiring Lands Required for the Melrose Avenue Viaduct	Chapter 680, Laws of 1897, and section 170 of the Greater New York Charter, as amended	3	1952	.....	116,975 79	1,077 71
Corporate Stock to Replenish the Fund for Street and Park Openings	Chapter 684, Laws of 1895	3	1914	.....	2,696,548 50	144,984 30
	Sections 169 and 174, chapter 378, Laws of 1897	3	1929	.....	74,619 45	
	Sections 169 and 174, chapter 378, Laws of 1897	3½	1929	.....	1,849,107 32	
	Sections 169 and 174, chapter 378, Laws of 1897	3	1940	.....	2,598,211 10	
	Sections 169 and 174, chapter 378, Laws of 1897	3½	1941	.....	1,112,125 90	
	Sections 169 and 174, chapter 378, Laws of 1897	3	1941	.....	538,699 69	
	Sections 169 and 174, chapter 378, Laws of 1897	3	1942	.....	2,265,577 92	
	Sections 169 and 174, chapter 378, Laws of 1897	3	1952	.....	4,193,187 99	
	Sections 169 and 174, chapter 378, Laws of 1897	3½	1952	.....	1,000,000 00	
	Sections 169 and 174, chapter 378, Laws of 1897	3	1953	.....	826,226 34	
	Sections 169 and 174, chapter 378, Laws of 1897	3½	1953	.....	2,010,000 00	
	Sections 169 and 174, chapter 378, Laws of 1897	3½	1954	.....	600,000 00	208,239 65
Corporate Stock for Board of Health Condemnation of Buildings	Chapter 57, Laws of 1897	3	1919	.....	44,286 94	1,571 97
Corporate Stock for the Purposes of the Department of Health	Section 48, chapter 378, Laws of 1897	3	1941	.....	25,000 00	
	Section 48, chapter 378, Laws of 1897	3	1942	.....	3,000 00	371 35
Corporate Stock for New Stock or Plant, Department of Street Cleaning	Sections 169 and 546, chapter 378, Laws of 1897	3	1929	.....	100,000 00	
	Sections 169 and 546, chapter 378, Laws of 1897	3½	1929	.....	300,000 00	
	Sections 169 and 546, chapter 378, Laws of 1897	3	1940	.....	62,668 08	
	Sections 169 and 546, chapter 378, Laws of 1897	3	1942	.....	81,431 25	
	Sections 169 and 546, chapter 378, Laws of 1897	3	1952	.....	3,612 00	
	Section 546, chapter 378, Laws of 1897, and section 47 of the Greater New York Charter, as amended	3	1942	.....	120,000 00	
	Section 546, chapter 378, Laws of 1897, and section 47 of the Greater New York Charter, as amended	3	1952	.....	351,861 75	
	Section 546, chapter 378, Laws of 1897, and section 47 of the Greater New York Charter, as amended	3	1953	.....	159,000 00	
	Section 546, chapter 378, Laws of 1897, and section 47 of the Greater New York Charter, as amended	3½	1953	.....	100,000 00	
	Section 546, chapter 378, Laws of 1897, and section 47 of the Greater New York Charter, as amended	3½	1954	.....	200,000 00	19,410 23
Corporate Stock for New York Public Library, Astor, Lenox and Tilden Foundations	Chapter 556, Laws of 1897; chapter 627, Laws of 1900, and section 170, chapter 378, Laws of 1897, as amended	3½	1929	.....	500,000 00	
	Chapter 556, Laws of 1897; chapter 627, Laws of 1900, and section 170, chapter 378, Laws of 1897, as amended	3½	1942	.....	500,000 00	
	Chapter 556, Laws of 1897; chapter 627, Laws of 1900, and section 170, chapter 378, Laws of 1897, as amended	3½	1952	.....	600,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of April 24, 1905 (L)	3½	1954	.....	1,000,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of February 15, 1906	4	1955	.....	500,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York	3	1956	.....	150,000 00	

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of February 1, 1907	4	1956	.....	250,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York	3	1957	.....	115,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of June 28, 1907 (L2)	4	1957	.....	472,400 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of Feb. 14, 1908 (L3)	4½	1957	.....	1,000,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York	3	1958	$430,000 00	430,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of November 23, 1908 (L4)	4	1958	250,000 00	250,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of March 2, 1909 (L5)	4	1958	250,000 00	250,000 00	
	Greater New York Charter, as amended, and other acts of the Legislature of the State of New York. Issue of June 8, 1909 (L6)	4	1959	800,000 00	800,000 00	70,314 13
Corporate Stock for Acquiring Sites for the Carnegie Libraries	Chapter 580, Laws of 1901; section 169, Greater New York Charter	3	1942	.....	250,000 00	
	Chapter 580, Laws of 1901; section 169, Greater New York Charter	3	1952	.....	202,154 90	
	Chapter 580, Laws of 1901; section 169, Greater New York Charter	3	1953	.....	173,500 00	
	Chapter 580, Laws of 1901; section 169, Greater New York Charter	3½	1953	.....	90,000 00	
	Chapter 580, Laws of 1901; section 169, Greater New York Charter	3½	1954	.....	250,000 00	9,840 34
Corporate Stock for Enlarging the Public Library Building and the Site therefor, located on Montague Street, in the Borough of Brooklyn	Chapter 441, Laws of 1892, and section 170 of the Greater New York Charter as amended	3	1952	.....	40,000 00	
	Chapter 441, Laws of 1892, and section 170 of the Greater New York Charter as amended	3	1953	.....	30,000 00	644 92
Corporate Stock for Extension of Broadway or Kingsbridge Road	Chapter 399, Laws of 1896; chapter 86, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3	1919	.....	40,000 00	
	Chapter 399, Laws of 1896; chapter 86, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3	1952	.....	11,000 00	
	Chapter 399, Laws of 1896; chapter 86, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3	1953	.....	74 34	1,590 64
Corporate Stock for Steel Beam Structure over New York and Harlem Railroad at Brook Avenue	Chapter 616, Laws of 1896	3	1921	.....	9,000 00	
	Chapter 616, Laws of 1896	3	1940	.....	1,000 00	307 98
Corporate Stock for Making Changes in Sewers in Connection with the Atlantic Avenue Improvement in the Borough of Brooklyn	Sections 169 and 170, Greater New York Charter as amended	3	1953	.....	38,500 00	355 61
Corporate Stock for the Construction of Sewers in the Borough of Brooklyn	Sections 169 and 176, Greater New York Charter as amended	3	1953	.....	1,000 00	
	Sections 169 and 176, Greater New York Charter as amended	3½	1953	.....	100,000 00	
	Sections 169 and 176, Greater New York Charter as amended	3½	1954	.....	100,000 00	1,817 08
Corporate Stock for the Construction of the Webster Avenue Relief Sewer in the Borough of The Bronx	Sections 169 and 176, Greater New York Charter as amended	3	1953	.....	2,500 00	23 94
Corporate Stock for the Construction of Main Relief Sewers in the Borough of Brooklyn	Chapter 379, Laws of 1894; sections 169 and 170 of Greater New York Charter.	3½	1942	.....	167,000 00	2,214 82
Corporate Stock for New Hall of Records	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3	1929	.....	150,000 00	
	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3½	1929	.....	500,000 00	
	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3½	1930	.....	250,000 00	
	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3½	1940	.....	2,810,000 00	
	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3½	1952	.....	500,000 00	
	Chapters 59 and 793, Laws of 1897, and sections 169 and 170, chapter 378, Laws of 1897	3½	1954	.....	700,000 00	68,480 88
Corporate Stock for Repairs to and Alterations in the County Court House in the Borough of Manhattan	Chapter 49, Laws of 1900, and section 169 of the Greater New York Charter as amended	3	1952	.....	28,537 15	
	Chapter 49, Laws of 1900, and section 169 of the Greater New York Charter as amended	3	1953	.....	2,500 00	285 95
Corporate Stock for the Extension, Alteration, Improvement and Furnishing of the Hall of Records in Kings County	Chapter 647, Laws of 1900; section 169 of chapter 378, Laws of 1897	3	1941	.....	20,000 00	
	Chapter 647, Laws of 1900; section 169 of chapter 378, Laws of 1897, as amended	3½	1952	.....	400,000 00	3,962 14
Corporate Stock for Improvement of Wallabout Basin, Borough of Brooklyn	Chapter 876, Laws of 1896; chapter 529, Laws of 1897	3	1929	.....	100,000 00	2,101 92
Corporate Stock for Construction of Public Driveway along the Harlem River	Chapter 102, Laws of 1893, amended by chapter 8, Laws of 1894	3	1940	.....	300,000 00	3,978 71
Corporate Stock for Viaduct on Riverside Drive, over West Ninety-sixth Street	Chapter 74, Laws of 1894; chapter 210, Laws of 1895; chapter 504, Laws of 1896	3	1940	.....	85,000 00	1,127 30
Corporate Stock for Widening the Roadway of Fifty-ninth Street, between Fifth and Eighth Avenues	Sections 48 and 169 of chapter 378, Laws of 1897	3	1941	.....	5,000 00	
	Sections 48 and 169 of chapter 378, Laws of 1897	3	1942	.....	40,000 00	599 71
Corporate Stock for Soldiers and Sailors' Memorial Arch	Chapter 522, Laws of 1893	3	1929	.....	5,000 00	
	Chapter 522, Laws of 1893	3	1940	.....	2,000 00	
	Chapter 522, Laws of 1893	3½	1940	.....	200,000 00	
	Chapter 522, Laws of 1893	3½	1942	.....	43,000 00	3,476 14
Corporate Stock for Making a Map or Plan of a Portion of the Second, Third and Fourth Wards of the Borough of Queens	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	42,500 00	392 47
Corporate Stock for Making a Map or Plan of Ward One and Part of Wards Two, Three, Four and Five of the Borough of Richmond	Sections 47 and 169 of the Greater New York Charter, as amended	3	1953	.....	20,000 00	186 09

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for the Payment of Additional Expenses Incurred in the Erection of the Monument of the Late General Edward B. Fowler in Fort Greene Park, Borough of Brooklyn	Sections 47 and 169 of the Greater New York Charter, as amended	3	1952	.....	1,550 00	14 28
Corporate Stock for the Improvement of Atlantic Avenue, in the Borough of Brooklyn	Chapter 499, Laws of 1897; chapter 452, Laws of 1902; sections 169 and 170 of the Greater New York Charter, as amended	3	1942	.....	250,000 00	
	Chapter 499, Laws of 1897; chapter 452, Laws of 1902; sections 169 and 170 of the Greater New York Charter, as amended	3	1952	.....	680,000 00	
	Chapter 499, Laws of 1897; chapter 452, Laws of 1902; sections 169 and 170 of the Greater New York Charter, as amended	3	1953	.....	70,000 00	
	Chapter 499, Laws of 1897; chapter 452, Laws of 1902; sections 169 and 170 of the Greater New York Charter, as amended	3½	1953	.....	150,000 00	
	Chapter 499, Laws of 1897; chapter 452, Laws of 1902; sections 169 and 170 of the Greater New York Charter, as amended	3½	1954	.....	100,000 00	12,504 91
Corporate Stock for Fire Department Purposes	Chapter 76, Laws of 1894, amended by chapter 751, Laws of 1896	3½	1929	.....	300,000 00	
	Chapter 76, Laws of 1894, amended by chapter 751, Laws of 1896	3	1941	.....	300,000 00	
	Section 48 of chapter 378, Laws of 1897.	3	1941	.....	500,000 00	
	Section 48 of chapter 378, Laws of 1897.	3½	1941	.....	241,000 00	
	Section 48 of chapter 378, Laws of 1897; sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	161,000 00	
	Section 48 of chapter 378, Laws of 1897; sections 47 and 169, Greater New York Charter, as amended	3½	1953	.....	50,000 00	
	Section 48 of chapter 378, Laws of 1897; sections 47 and 169, Greater New York Charter, as amended	3	1954	.....	12,500 00	
	Section 48 of chapter 378, Laws of 1897; sections 47 and 169, Greater New York Charter, as amended	3½	1954	.....	250,000 00	25,039 71
Corporate Stock for the Construction of a New Fireboat for Use of the Fire Department of The City of New York	Sections 47 and 169 of the Greater New York Charter, as amended by chapter 409, Laws of 1904.	3	1953	.....	8,500 00	78 31
Corporate Stock for Placing the Fireboat "Seth Low" in Condition for Service	Sections 47 and 169 of the Greater New York Charter, as amended by chapter 409, Laws of 1904.	3	1953	.....	22,500 00	207 30
Corporate Stock to Complete the Establishment and Equipment of a Fire Alarm Telegraph System for the Borough of Richmond	Sections 47 and 169 of the Greater New York Charter, as amended by chapter 409, Laws of 1904.	3	1953	.....	2,000 00	18 79
Corporate Stock for Police Department Purposes	Chapter 350, Laws of 1892; chapter 495, Laws of 1895	3	1940	.....	136,389 71	
	Chapter 350, Laws of 1892; chapter 495, Laws of 1895	3	1941	.....	375,000 00	
	Sections 47 and 169, Greater New York Charter, as amended	3½	1954	.....	200,000 00	8,576 50
Corporate Stock for the Topographical Bureau of the Borough of The Bronx	Sections 47 and 169 of the Greater New York Charter, as amended by chapter 409, Laws of 1904.	3	1953	.....	1,000 00	
	Sections 47 and 169 of the Greater New York Charter, as amended by chapter 409, Laws of 1904.	3	1954	.....	1,000 00	18 79
Corporate Stock for Rebuilding a Retaining Wall on the Easterly Side of Edgecombe Avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth Streets, Borough of Manhattan	Sections 47 and 169, Greater New York Charter, as amended	3	1953	.....	5,000 00	47 89
Corporate Stock for Various Municipal Purposes	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1924	.....	13,500 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1925	.....	104,234 87	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1926	.....	186,734 77	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1954	.....	2,070,699 36	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York (Issue of November 23, 1904) (V.)	3½	1954	.....	18,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York (Issue of April 24, 1905) (V2)	3½	1954	.....	16,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1955	.....	7,748,704 69	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York (Issue of November 23, 1905) (V3)	3½	1955	.....	12,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York (Issue of February 15, 1906)	4	1955	.....	17,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York (Issue of July 25, 1906)	4	1936	.....	10,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1956	.....	1,319,294 57	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of November 2, 1906	4	1956	.....	4,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of December 14, 1906	4	1956	.....	7,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 1, 1907	4	1956	.....	23,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1957	$300,000 00	2,555,824 02	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of June 28, 1907 (V4)	4	1957	.....	360,440 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of August 12, 1907 (V5)	4	1957	.....	9,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of September 10, 1907 (V6)	4½	1957	.....	26,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 14, 1908 (V7)	4½	1957	.....	37,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1958	6,267,574 59	6,267,574 59	

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of November 23, 1908 (V8)	4	1958	7,000,000 00	7,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of March 2, 1909 (V9)	4	1958	7,000,000 00	7,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of June 8, 1909 (V10)	4	1959	24,000,000 00	24,000,000 00	2,327,716 58
Corporate Stock for the Construction of the Rapid Transit Railroad	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1948		4,000,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1949		4,000,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3	1950		1,500,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1950		2,500,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1951		8,500,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1952		1,166,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1952		10,000,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900	3½	1953		5,000,000 00	
	Chapter 4, Laws of 1891, as amended; sections 45, 169 and 170 of chapter 378, Laws of 1897, and chapter 7, Laws of 1900. Issue of May 3, 1904	3½	1954		4,700,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of November 23, 1904. (R.)	3½	1954		2,250,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of April 24, 1905. (R-2)	3½	1954		2,500,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York	3½	1955		250,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of July 25, 1906	4	1936		500,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York	4	1956		36,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of August 12, 1907. (R-3.)	4	1957		1,500,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York	4	1957		204,825 18	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of September 10, 1907. (R-4.)	4½	1957		2,000,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of February 14, 1908. (R-5.)	4½	1957		2,500,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York	4	1958	$592,500 00	592,500 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of November 23, 1908. (R-6.)	4	1958	750,000 00	750,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York. Issue of March 2, 1909. (R-7.)	4	1958	750,000 00	750,000 00	
	Greater New York Charter as amended and other Acts of the Legislature of the State of New York	4	1959	3,200,000 00	3,200,000 00	604,917 63
				$51,590,074 59	$475,567,877 13	$5,417,403 60

Less amount received and to be received as estimated, during the year 1909, from the operation of the Rapid Transit Railroad, viz.:

Manhattan and The Bronx—		
Additional amount received in 1908	$1,112 55	
Amount to be received in 1909, as estimated	462,000 00	
Brooklyn and Manhattan—		
Amount received in 1908	804 86	
Amount to be received in 1909, as estimated	36,000 00	
		499,917 41
		$4,917,486 19

Statement of Stock of The City of New York, Payable from Taxation Issued After January 1, 1898, and Prior to September 30, 1909, by Authority of Existing Statutes, and of the Sums Required to Be Included in the Budget for the Year 1910, and Subsequent Years, and to Be Paid Into the "Water Sinking Fund of The City of New York," Which, with the Accumulation of Interest Thereon, Shall Be Sufficient to Redeem Said Stock by the Time the Same Shall Be Payable, as Provided by Section 10 of Article 8 of the Constitution of the State of New York Adopted at the General Election Held November 6, 1894.

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
Corporate Stock for the new Aqueduct	Chapter 490, Laws of 1883	3	1917		$300,000 00	
	Chapter 490, Laws of 1883	3½	1917		2,000,000 00	
	Chapter 490, Laws of 1883	3	1918		450,000 00	
	Chapter 490, Laws of 1883	3½	1918		350,000 00	
	Chapter 490, Laws of 1883	3	1910		200,000 00	
	Chapter 490, Laws of 1883	3	1919		300,000 00	
	Chapter 490, Laws of 1883	3½	1919		2,650,000 00	
	Chapter 490, Laws of 1883	3½	1920		2,200,000 00	
	Chapter 490, Laws of 1883	3	1920		90,000 00	
	Chapter 490, Laws of 1883	3½	1921		500,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3½	1922		500,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3	1922		200,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3½	1952		1,500,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3	1953		1,530,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3½	1953		350,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3	1954		70,000 00	
	Chapter 490, Laws of 1883, and section 170, chapter 378, Laws of 1897	3½	1954		1,000,000 00	$435,270 98
Corporate Stock for the Sanitary Protection of the Sources of the Water Supply	Chapters 189 and 515, Laws of 1893	3	1917		200,000 00	
	Chapters 189 and 515, Laws of 1893	3½	1917		350,000 00	
	Chapters 189 and 515, Laws of 1893	3	1919		100,000 00	
	Chapters 189 and 515, Laws of 1893	3½	1919		350,000 00	
	Chapters 189 and 515, Laws of 1893, and section 170, chapter 378, Laws of 1897	3½	1920		500,000 00	
	Chapters 189 and 515, Laws of 1893, and section 170, chapter 378, Laws of 1897	3	1921		500,000 00	
	Chapters 189 and 515, Laws of 1893, and section 170, chapter 378, Laws of 1897	3	1952		200,000 00	81,921 96
Corporate Stock for Laying Water Mains	Chapter 669, Laws of 1896	3	1917		50,000 00	
	Chapter 669, Laws of 1896	3½	1917		300,000 00	14,079 58
Corporate Stock to Provide for an Additional Supply of Water	Section 141, Consolidation Act of 1882	3	1911		23,000 00	

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued from September 30, 1908, to September 30, 1909.	Total Amount of Stock Issued Prior to September 30, 1909.	Amount to be Raised by Tax in 1910 for Redemption of Stock.
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3½	1919	.....	250,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3	1920	.....	260,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3	1921	.....	445,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3	1922	.....	945,501 74	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3	1952	.....	544,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3½	1952	.....	250,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3	1953	.....	680,498 26	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1897	3½	1953	.....	650,000 00	
	Section 141, Consolidation Act of 1882, and sections 169 and 178, chapter 378, Laws of 1987	3½	1954	.....	1,000,000 00	
	Sections 47 and 169 and 178, Greater New York Charter, as amended	3	1953	.....	482,500 00	
	Sections 47 and 169 and 178, Greater New York Charter, as amended	3	1954	.....	15,000 00	
	Sections 47 and 169 and 178, Greater New York Charter, as amended	3½	1954	.....	500,000 00	114,863 22
Corporate Stock for Laying Additional Water Mains and Erecting Additional Pumping Machinery	Chapter 646, Laws of 1897	3	1918	.....	106,343 00	
	Chapter 646, Laws of 1897	3½	1920	.....	350,000 00	18,168 76
Corporate Stock for Payment of Award for Plant, etc., of the Long Island Water Supply Company	Chapter 481, Laws of 1892	3½	1918	.....	570,000 00	24,343 99
Corporate Stock for Laying Water Mains, in the Borough of Brooklyn	Chapter 583, Laws of 1888	3	1918	.....	100,000 00	
	Chapter 583, Laws of 1888	3	1919	.....	100,000 00	
	Chapter 583, Laws of 1888	3	1920	.....	875,000 00	
	Chapter 583, Laws of 1888	3½	1920	.....	150,000 00	
	Chapter 583, Laws of 1888	3	1952	.....	29,000 00	
	Chapter 583, Laws of 1888	3	1953	.....	47,500 00	49,480 39
Corporate Stock to Provide for the Supply of Water	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1924	.....	55,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1925	.....	695,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1954	.....	143,500 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1955	.....	1,588,500 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of November 23, 1904 (W)	3½	1954	.....	4,250,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of April 24, 1905 (W2)	3½	1954	.....	2,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 15, 1906	4	1955	.....	2,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	4	1925	.....	100 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1926	.....	85,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1956	.....	1,653,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of November 2, 1906	4	1956	.....	500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of December 14, 1906	4	1956	.....	1,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 1, 1907	4	1956	.....	2,750,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of December 14, 1906	4	1926	.....	300,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 1, 1907	4	1926	.....	511,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1957	$51,500 00	51,500 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of June 28, 1907 (W3)	4	1957	.....	1,100,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of August 12, 1907 (W4)	4	1957	.....	2,500,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of September 10, 1907 (W5)	4½	1957	.....	7,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of February 14, 1908 (W6)	4½	1957	.....	6,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York	3	1958	1,601,000 00	1,601,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of November 23, 1908 (W7)	4	1958	4,000,000 00	4,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of March 2, 1909 (W8)	4	1958	2,000,000 00	2,000,000 00	
	Greater New York Charter, as amended, and other Acts of the Legislature of the State of New York. Issue of June 8, 1909 (W9)	4	1959	10,000,000 00	10,000,000 00	$526,064 79
				$17,652,500 00	$77,396,943 00	$1,264,193 67

Statement of Stock of The City of New York, Now Outstanding, Payable from Taxation, Issued After December 31, 1884, and Prior to January 1, 1898, by Authority of Existing Statutes, and the Sums Required to Be Included in the Budget for the Year 1910 and Subsequent Years, Which, with the Accumulation of Interest Thereon, Shall Be Sufficient to Redeem Said Stocks by the Time the Same Shall Be Payable, as Provided by Section 10 of Article 8 of the Constitution of the State of New York, Adopted at the General Election Held November 6, 1894.

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest. Per Cent.	Date of Maturity.	Amount of Stock Issued Prior to 1898.	Total Amount of Stock Outstanding.	Amount to Be Raised by Tax in 1910 for Redemption of Stock.
Additional Water Stock	Chapter 490, Laws of 1883	3	1912	$4,819,500 00		
	Chapter 490, Laws of 1883	3½	1915	3,030,500 00		
	Chapter 490, Laws of 1883	3½	1916	1,750,000 00	$9,600,000 00	$421,759 44
Additional Croton Water Stock	Section 141, New York City Consolidation Act of 1882	3	1911	$250,000 00		
	Section 141, New York City Consolidation Act of 1882	3½	1911	400,000 00		
	Section 141, New York City Consolidation Act of 1882	3	1914	200,000 00	850,000 00	44,101 01
Additional Water Stock for the Sanitary Protection of the Water Supply	Chapters 189 and 515, Laws of 1893	3	1912	$1,383,500 00		
	Chapters 189 and 515, Laws of 1893	3½	1912	175,000 00		
	Chapters 189 and 515, Laws of 1893	3	1914	391,500 00	1,950,000 00	92,388 79

Titles of Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.	Amount of Stock Issued Prior to 1898.	Total Amount of Stock Outstanding.	Amount to Be Raised by Tax in 1910 for Redemption of Stock.
Water Main Stock...	Chapter 38, Laws of 1892.....	3	1912	$250,000 00		
	Chapter 38, Laws of 1892.....	3	1914	250,000 00		
					500,000 00	20,975 36
					$12,900,000 00	$579,224 60

Statement of Bonds and Stocks Issued by The City of New York, as Constituted Prior to January 1, 1898, Which Are Redeemable from the Sinking Fund of The City of New York for the Redemption of the City Debt (No. 1) and of the Amount Required to Be Set Apart Out of the Revenues of Said Sinking Fund in the Year 1910 and Subsequent Years, Which, with the Amount of the Assets of Said Fund on January 1, 1903, and the Accumulations of Both of Said Amounts, Will be Sufficient to Redeem Said Bonds and Stocks at Their Maturity, as Provided by Chapter 103 of the Laws of 1903.

Titles of Bonds and Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.		Amount of Bonds and Stock Outstanding.
Consolidated Stock...	Chapter 322, Laws of 1871; chapter 383, Laws of 1878; chapter 552, Laws of 1880.....	4	1910	.....	$2,800,000 00
Consolidated Stock (For New Parks, Parkways and Public Places in the Twenty-third and Twenty-fourth Wards and in Westchester County)...	Chapter 79, Laws of 1889.....	2½	1909-1929	.....	9,823,100 00
Additional Water Stock.....	Section 34, chapter 490, Laws of 1883.	3	1913-1933	$145,000 00	
	Section 34, chapter 490, Laws of 1883.	3½	1913-1933	300,000 00	445,000 00
Assessment Fund Stock (City).....	Chapter 565, section 7, Laws of 1865; chapter 304, Laws of 1874.....	6	1910	.....	900,450 00
Consolidated Stock (County).....	Chapter 323, Laws of 1871; chapter 630, Laws of 1900.....	3 3/10	1917	$699,000 00	
	Chapter 323, Laws of 1871; chapter 630, Laws of 1900.....	3 3/10	1918	2,000,000 00	
	Chapter 323, Laws of 1871; chapter 630, Laws of 1900.....	3 3/10	1919	2,000,000 00	
	Chapter 323, Laws of 1871; chapter 630, Laws of 1900.....	3 3/10	1920	2,000,000 00	
	Chapter 323, Laws of 1871; chapter 630, Laws of 1900.....	3 3/10	1921	2,000,000 00	8,699,000 00
Dock Bonds.....	Chapter 574, Laws of 1871.....	5	1910	520,000 00	
	Chapter 574, Laws of 1871.....	5	1911	191,000 00	
	Chapter 574, Laws of 1871.....	4	1911	672,000 00	
	Section 143, New York City Consolidation Act of 1882.....	4	1912	1,080,000 00	
	Section 143, New York City Consolidation Act of 1882.....	4	1913	820,000 00	
	Section 143, New York City Consolidation Act of 1882.....	4	1914	175,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1914	625,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3½	1915	1,150,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1916	500,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1917	500,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1918	1,000,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1919	1,000,000 00	
	Section 143, New York City Consolidation Act of 1882.....	2½	1919	50,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1920	1,250,000 00	
	Section 143, New York City Consolidation Act of 1882.....	2½	1920	200,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1921	1,700,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1922	2,500,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1923	2,525,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1924	2,585,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3	1925	1,190,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3½	1926	1,000,000 00	
	Section 143, New York City Consolidation Act of 1882.....	3½	1927	4,000,000 00	
Additional Dock Bonds.....	Chapter 246, Laws of 1896; chapter 668, Laws of 1897.....	3	1928	250,000 00	
	Chapter 246, Laws of 1896; chapter 668, Laws of 1897.....	3½	1928	1,750,000 00	27,233,000 00
New York Bridge Bonds (Consolidated Stock).....	Chapter 368, Laws of 1882; chapter 128, Laws of 1891; chapter 956, Laws of 1895.....	3	1922	$330,000 00	
	Chapter 368, Laws of 1882; chapter 128, Laws of 1891; chapter 956, Laws of 1895.....	3	1923	100,000 00	
	Chapter 368, Laws of 1882; chapter 128, Laws of 1891; chapter 956, Laws of 1895.....	3	1925	120,000 00	
	Chapter 368, Laws of 1882; chapter 128, Laws of 1891; chapter 956, Laws of 1895.....	3	1926	30,000 00	580,000 00
Armory Bonds.....	Chapter 299, Laws of 1883; chapter 487, Laws of 1886; chapter 330, Laws of 1887; chapter 485, Laws of 1890.....	3	1910	$1,133,566 12	
	Chapter 299, Laws of 1883; chapter 487, Laws of 1886; chapter 330, Laws of 1887; chapter 485, Laws of 1890.....	3	1914	270,500 00	1,404,066 12
Consolidated Stock (Metropolitan Museum of Art).....	Chapter 447, Laws of 1884; chapter 581, Laws of 1887; chapter 513, Laws of 1889; chapter 420, Laws of 1892; chapter 276, Laws of 1893; chapter 347, Laws of 1895.....	3	1913	$727,000 00	
	Chapter 447, Laws of 1884; chapter 581, Laws of 1887; chapter 513, Laws of 1889; chapter 420, Laws of 1892; chapter 276, Laws of 1893; chapter 347, Laws of 1895.....	2½	1913	120,000 00	
	Chapter 447, Laws of 1884; chapter 581, Laws of 1887; chapter 513, Laws of 1889; chapter 420, Laws of 1892; chapter 276, Laws of 1893; chapter 347, Laws of 1895.....	3	1912	90,000 00	
	Chapter 447, Laws of 1884; chapter 581, Laws of 1887; chapter 513, Laws of 1889; chapter 420, Laws of 1892; chapter 276, Laws of 1893; chapter 347, Laws of 1895.....	3½	1916	200,000 00	1,137,000 00
School House Bonds..	Chapter 264, Laws of 1891.....	3	1911	$3,200,574 68	
	Chapter 282, Laws of 1893.....	3½	1911	806,502 84	
	Chapter 459, Laws of 1894.....	3	1912	542,553 60	
	Chapter 88, Laws of 1895.....	3	1913	754,560 75	
	Chapter 728, Laws of 1896.....	3	1914	913,635 16	
	Chapter 740, Laws of 1897.....	3½	1914	84,694 80	
	Chapter 740, Laws of 1897.....	3½	1915	1,925,141 37	
	Chapter 740, Laws of 1897.....	3	1916	1,576,287 94	
	Chapter 740, Laws of 1897.....	3½	1916	3,691,269 54	13,495,220 68
Consolidated Stock (Harlem River Bridge).....	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1910	$194,950 00	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	2½	1910	14,500 00	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1911	89,508 00	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1912	60,078 80	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1913	17,175 00	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1914	45,590 00	
	Chapter 487, Laws of 1885; chapter 573, Laws of 1888; chapter 249, Laws of 1890.....	3	1950	39,325 11	461,126 91
Consolidated Stock (East River Park).	Chapter 320, Laws of 1887.....	3	1911	.....	637,118 88
Consolidated Stock (Riverside Park and Drive).....	Chapter 74, Laws of 1894; chapter 120, Laws of 1895; chapter 504, Laws of 1896; chapter 666, Laws of 1897.....	3	1914	$455,000 00	
	Chapter 74, Laws of 1894; chapter 120, Laws of 1895; chapter 504, Laws of 1896; chapter 666, Laws of 1897.....	3½	1912	200,000 00	
	Chapter 74, Laws of 1894; chapter 120, Laws of 1895; chapter 504, Laws of 1896; chapter 666, Laws of 1897.....	3	1921	55,000 00	710,000 00
Consolidated Stock (American Museum of Natural History)	Chapter 44, Laws of 1887.....	3	1913	$595,000 00	
	Chapter 89, Laws of 1889.....	2½	1913	205,000 00	

Titles of Bonds and Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.		Amount of Bonds and Stock Outstanding.
	Chapter 423, Laws of 1892	3	1920	949,103 36	
	Chapter 448, Laws of 1893	3½	1917	250,000 00	
	Chapter 235, Laws of 1895; chapter 175, Laws of 1896; chapter 213, Laws of 1897	3½	1925	50,000 00	2,049,103 36
Consolidated Stock (Repaving Streets and Avenues)	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3	1910	$1,000,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3	1911	1,000,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3	1913	2,000,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3	1916	505,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3½	1916	475,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3	1920	1,220,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3½	1917	600,000 00	
	Chapter 346, Laws of 1889; chapter 35, Laws of 1892; chapter 475, Laws of 1895; chapter 87, Laws of 1897	3½	1918	1,400,000 00	8,200,000 00
Consolidated Stock (Fifth District Police and Ninth Judicial District Courts)	Chapter 487, Laws of 1890	3	1911	$75,000 00	
	Chapter 487, Laws of 1890	3	1912	75,000 00	
	Chapter 487, Laws of 1890	3	1913	39,188 92	189,188 92
Consolidated Stock (Rutgers Slip Park)	Chapter 320, Laws of 1887	3	1911	.....	20,000 00
Consolidated Stock (Harlem River Bridge at One Hundred and Fifty-fifth Street, etc.)	Chapter 207, Laws of 1890; chapter 13, Laws of 1892	3	1916	$1,140,000 00	
	Chapter 207, Laws of 1890; chapter 13, Laws of 1892	3	1920	100,000 00	
	Chapter 207, Laws of 1890; chapter 13, Laws of 1892	3	1917	5,000 00	1,245,000 00
Consolidated Stock (Improvement of Castle Garden, etc., and for Aquarium)	Chapter 28, Laws of 1892; chapter 254, Laws of 1893	3	1912	$230,000 00	
	Chapter 28, Laws of 1892; chapter 254, Laws of 1893	3	1920	70,000 00	300,000 00
Consolidated Stock (Harlem River Bridge at Third Avenue)	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3	1914	$100,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3	1915	85,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3	1916	15,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3	1920	400,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3½	1916	250,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3½	1917	400,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3½	1918	400,000 00	
	Chapter 413, Laws of 1892; chapter 716, Laws of 1896	3	1920	860,017 61	2,510,017 61
Consolidated Stock (Harlem Ship Canal Bridge)	Chapter 232, Laws of 1892; chapter 48, Laws of 1894	3	1914	$315,000 00	
	Chapter 232, Laws of 1892; chapter 48, Laws of 1894	3	1915	45,069 34	
	Chapter 232, Laws of 1892; chapter 48, Laws of 1894	3	1919	36,573 00	
	Chapter 232, Laws of 1892; chapter 48, Laws of 1894	3	1920	80,000 00	476,642 34
Consolidated Stock (Mosholu Parkway)	Chapter 417, Laws of 1892	3	1912	.....	4,000 00
Consolidated Stock (Seventh District Police and Eleventh Judicial District Courts)	Chapter 43, Laws of 1892	3	1916	$73,636 28	
	Chapter 43, Laws of 1892	3	1917	14,485 00	
	Chapter 43, Laws of 1892	3	1920	199,000 00	287,121 28

Titles of Bonds and Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.		Amount of Bonds and Stock Outstanding.
Consolidated Stock (Public Driveway)	Chapter 102, Laws of 1893; chapter 8, Laws of 1894	3	1918	$1,700,000 00	
	Chapter 102, Laws of 1893; chapter 8, Laws of 1894	3	1920	800,000 00	
	Chapter 102, Laws of 1893; chapter 8, Laws of 1894	3½	1916	250,000 00	2,750,000 00
Consolidated Stock (Awards — Depression of Railroad Tracks, Twenty-third and Twenty-fourth Wards)	Chapter 537, Laws of 1893; chapter 567, Laws of 1894	3½	1910	$300,000 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894	3½	1911	85,000 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894	3	1911	326,500 00	
	Chapter 537, Laws of 1893; chapter 567, Laws of 1894	4	1912	221,440 00	932,940 00
Consolidated Stock (New Municipal Building)	Chapter 299, Laws of 1890	3	1912	.....	8,300 00
Consolidated Stock (Repaving Third Avenue, One Hundred and Thirty-eighth Street to northern boundary line of the Twenty-third Ward)	Chapter 305, Laws of 1892	3	1923	.....	14,000 00
Consolidated Stock (Repaving Third Avenue, in the Twenty-third Ward)	Chapter 150, Laws of 1894	3	1920	.....	50,000 00
Consolidated Stock (Purchase of Wards Island, etc.)	Chapter 528, Laws of 1893	3	1913	.....	819,769 40
Consolidated Stock (Gore of Land, One Hundred and Fifty-third Street, Seventh Avenue and Macombs Dam Road)	Chapter 207, Laws of 1890; chapters 13 and 552, Laws of 1892	3	1916	.....	183,509 19
Consolidated Stock (Electrozone Plant)	Chapter 368, Laws of 1894	3	1913	.....	37,000 00
Consolidated Stock (Improvement of Parks, etc., New York City and Pelham Park)	Chapter 11, Laws of 1894	3	1919	$690,000 00	
	Chapter 11, Laws of 1894	3	1920	310,000 00	1,000,000 00
Consolidated Stock (Sedgwick Avenue and Ogden Avenue Approaches to Macombs Dam Bridge)	Chapter 270, Laws of 1890; chapter 319, Laws of 1893	3	1916	$69,388 00	
	Chapter 270, Laws of 1890; chapter 319, Laws of 1893	3	1920	73,000 00	142,388 00
Consolidated Stock (Corlears Hook Park)	Chapter 520, Laws of 1884; chapter 251, Laws of 1894; chapter 511, Laws of 1894	3	1913	$1,370,421 00	
	Chapter 520, Laws of 1884; chapter 251, Laws of 1894; chapter 511, Laws of 1894	3	1914	124,500 00	
	Chapter 520, Laws of 1884; chapter 251, Laws of 1894; chapter 511, Laws of 1894	3	1912	47,500 00	1,542,421 00
Consolidated Stock (Cathedral Parkway)	Chapter 45, Laws of 1894	3	1912	$5,000 00	
	Chapter 45, Laws of 1894	3	1914	195,000 00	200,000 00
Consolidated Stock (Women's Cottage, Riverside Park)	Chapter 74, Laws of 1894	3	1912	.....	7,000 00
Sanitary Improvement School House Bonds	Chapter 432, Laws of 1893	3	1914	$130,830 84	
	Chapter 432, Laws of 1893	3½	1916	112,058 33	242,889 17
Consolidated Stock (Harlem River Bridge at First Avenue)	Chapter 147, Laws of 1894	3	1920	.....	180,000 00
Consolidated Stock (City Improvement Stock)	Section 139, Consolidation Act of 1882	3	1915	.....	778,772 36
Consolidated Stock (Mulberry Bend Park)	Chapter 320, Laws of 1887	3	1924	$1,584,371 00	
	Chapter 69, Laws of 1895	3	1920	100,000 00	1,684,371 00
Consolidated Stock (Public Building, Crotona Park)	Chapter 248, Laws of 1894	3	1914	$93,164 00	
	Chapter 404, Laws of 1896; chapter 720, Laws of 1896	3	1920	36,947 00	130,111 00
Consolidated Stock (Fire Department Bonds)	Chapter 76, Laws of 1894	3	1914	$108,015 00	
	Chapter 751, Laws of 1896	3	1915	150,000 00	
	Chapter 751, Laws of 1896	3	1916	600,000 00	858,015 00

Titles of Bonds and Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.		Amount of Bonds and Stock Outstanding.
Consolidated Stock (Washington Bridge Park)	Chapter 249, Laws of 1890	3	1915	$16,778 80	
	Chapter 249, Laws of 1890	3	1920	660,000 00	676,778 80
Consolidated Stock (Plant, etc., Department of Street Cleaning)	Chapter 368, Laws of 1894	3	1914	$180,115 00	
	Chapter 368, Laws of 1894	3½	1912	83,000 00	
	Chapter 368, Laws of 1894	3½	1916	150,000 00	413,115 00
Consolidated Stock (Police Department Bonds)	Chapter 350, Laws of 1892	3	1925	$60,549 65	
	Chapter 495, Laws of 1895	3½	1916	100,000 00	
	Chapter 495, Laws of 1894	3½	1918	34,000 00	194,549 65
Consolidated Stock (Fire-hydrant Stock)	Chapter 510, Laws of 1894	3	1925	$75,000 00	
	Chapter 510, Laws of 1894	3½	1925	50,000 00	125,000 00
Consolidated Stock (Repaving Avenue A)	Chapter 516, Laws of 1894	3	1912	$45,000 00	
	Chapter 516, Laws of 1894	3	1920	100,000 00	145,000 00
Consolidated Stock (Jerome Avenue Approach to Macombs Dam Bridge)	Chapter 207, Laws of 1890; chapter 13, Laws of 1892	3	1920	.....	201,181 32
Consolidated Stock (Repaving Roads, Streets and Avenues, Twenty-third and Twenty-fourth Wards)	Chapter 112, Laws of 1895; chapter 149, Laws of 1896	3	1920	$98,425 00	
	Chapter 112, Laws of 1895; chapter 149, Laws of 1896	3½	1917	100,000 00	
	Chapter 112, Laws of 1895; chapter 149, Laws of 1896	3	1921	400,000 00	598,425 00
Consolidated Stock (Construction and Improvement of Parkways)	Chapter 417, Laws of 1892; chapter 609, Laws of 1895	3	1914	.....	165,700 00
Consolidated Stock (Laying Asphalt Walks, Riverside Park)	Chapter 74, Laws of 1894	3	1912	.....	1,500 00
Consolidated Stock (New East River Bridge)	Chapter 789, Laws of 1895	3	1920	$137,325 00	
	Chapter 789, Laws of 1895	3½	1917	100,000 00	
	Chapter 789, Laws of 1895	3½	1918	300,000 00	537,325 00
Consolidated Stock (College of The City of New York)	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897	3	1914	$47,000 00	
	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897	3½	1914	45,650 00	
	Chapter 168, Laws of 1895; chapter 608, Laws of 1896; chapter 433, Laws of 1897	3½	1915	508,600 00	601,250 00
Consolidated Stock (Public Park, One Hundred and Eleventh Street and First Avenue, etc.)	Chapter 746, Laws of 1894	3	1917	$79,847 91	
	Chapter 746, Laws of 1894	3	1918	8,842 40	88,690 31
Consolidated Stock (Public Park, Twelfth Ward)	Chapter 56, Laws of 1894	3	1921	.....	66,307 88
Consolidated Stock (Court House, Appellate Division, Supreme Court)	Chapter 553, Laws of 1895; chapter 196, Laws of 1897	3	1919	.....	64,593 75
Consolidated Stock (Extension of Broadway or Kingsbridge Road)	Chapter 399, Laws of 1896	3	1919	.....	2,000 00
Consolidated Stock (Acquiring St. John's Cemetery for Public Park and Construction Thereof)	Chapter 320, Laws of 1887; chapter 295, Laws of 1896	3½	1916	$554,565 04	
	Chapter 320, Laws of 1887; chapter 295, Laws of 1896	3	1916	35,000 00	589,565 04
Consolidated Stock (Improvement of Public Parks, Parkways and Drives in New York City)	Chapter 194, Laws of 1896	3½	1917	$123,000 00	
	Chapter 194, Laws of 1896	3½	1918	175,000 00	
	Chapter 194, Laws of 1896	3	1918	37,000 00	335,000 00
Consolidated Stock (Arrears of State Taxes for Support of Insane)	Chapter 3, Laws of 1896	3½	1916	$1,200,000 00	
	Chapter 3, Laws of 1896	3½	1915	177,000 00	1,377,000 00
Consolidated Stock (Public Park — St. Nicholas Avenue, etc.)	Chapter 320, Laws of 1887	3	1911	.....	43,074 84
Consolidated Stock (Laying Water Mains)	Chapter 669, Laws of 1896	3	1918	$250,000 00	
	Chapter 669, Laws of 1896	3½	1918	400,000 00	650,000 00
Consolidated Stock (For Redemption of Bonds and Stock Maturing in 1896)	Section 204, Consolidation Act of 1882	3½	1922	.....	7,000,000 00
Consolidated Stock (Department of Public Charities)	Chapter 724, Laws of 1896	3½	1918	$350,000 00	
	Chapter 724, Laws of 1896	3	1921	418,175 00	768,175 00
Consolidated Stock (Department of Correction)	Chapter 626, Laws of 1896	3½	1918	$250,000 00	
	Chapter 626, Laws of 1896	3	1921	50,000 00	300,000 00
Consolidated Stock (Street and Park Opening Fund Stock)	Chapter 684, Laws of 1895	3½	1918	.....	1,868,867 30
Consolidated Stock (Redemption of Revenue Bonds — Fort Washington Park)	Chapter 58, Laws of 1897	3½	1918	.....	867,310 08
Consolidated Stock (Redemption of Revenue Bonds — Site for Appellate Division, Supreme Court)	Chapter 61, Laws of 1897	3½	1918	.....	389,431 90
Consolidated Stock (Bridge Connecting Pelham Bay Park and City Island)	Chapter 638, Laws of 1894; chapter 507, Laws of 1896	3	1916	1,000 00	
	Chapter 638, Laws of 1894; chapter 507, Laws of 1896	3	1919	34,000 00	35,000 00
Consolidated Stock (Ambulance Station, East Seventeenth Street)	Chapter 721, Laws of 1896	3	1916	.....	50,000 00
Consolidated Stock (Hospital Building, Gouverneur Slip)	Chapter 703, Laws of 1894; chapter 399, Laws of 1895	3	1916	.....	65,000 00
Consolidated Stock (Condemnation of Buildings, Board of Health)	Chapter 57, Laws of 1897	3	1919	.....	38,027 52
Consolidated Stock (New Hall of Records)	Chapter 59, Laws of 1897	3	1923	.....	105,100 00
Consolidated Stock (Public Park, Twenty-seventh Street and Ninth Avenue, etc.)	Chapter 320, Laws of 1887	3	1921	.....	16,696 32
Consolidated Stock (Public Park, Houston and Pitt Streets, etc.)	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3	1920	.....	23,709 02
Consolidated Stock (Public Park, Hester Street and East Broadway, etc.)	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3	1923	$1,271 14	
	Chapter 293, Laws of 1895; chapter 676, Laws of 1897	3	1920	15,289 72	16,560 86
Consolidated Stock (Bridge, Harlem River and One Hundred and Forty-fifth Street)	Chapter 986, Laws of 1895	3	1918	$4,000 00	
	Chapter 986, Laws of 1895	3	1919	96,000 00	100,000 00
Consolidated Stock (Bridge, Bronx River, Westchester Avenue)	Chapter 24, Laws of 1897; chapter 617, Laws of 1896	3	1919	$5,000 00	
	Chapter 24, Laws of 1897; chapter 617, Laws of 1896	3	1920	15,000 00	20,000 00
Consolidated Stock (Paving Jerome Avenue)	Chapter 31, Laws of 1897	3	1922	.....	125,000 00
Consolidated Stock (Steel Beam Structure over Port Morris Branch, New York and Harlem Railroad)	Chapter 616, Laws of 1896	3	1921	.....	50,000 00
Consolidated Stock (Melrose Avenue Viaduct)	Chapter 680, Laws of 1897	3	1922	.....	25,000 00
Consolidated Stock (Bridges over Tracks of New York Central and Hudson River Railroad at Gerard Avenue, at Walton Avenue and at River Avenue, and over New York and Putnam Railroad at Fort Independence Street)	Chapter 645, Laws of 1897	3	1922	.....	15,000 00
Consolidated Stock (High School Bonds)	Chapter 412, Laws of 1897	3	1916	.....	5,000 00
Consolidated Stock (Spuyten Duyvil Parkway)	Chapter 301, Laws of 1897	3	1923	.....	55,000 00

Titles of Bonds and Stock.	Statutes Authorizing Their Issue.	Rate of Interest, Per Cent.	Date of Maturity.		Amount of Bonds and Stock Outstanding.
Consolidated Stock (Improvement of Parks, Parkways and Drives in The City of New York)	Chapter 643, Laws of 1897	3	1921	.....	102,000 00
Consolidated Stock (Redemption of Assessment Bonds for Improvement of Park Avenue above One Hundred and Sixth Street)	Section 149, New York City Consolidation Act of 1882	3	1920	.....	100,000 00
Consolidated Stock (Botanical Museum and Herbarium)	Chapter 285, Laws of 1891; chapter 103, Laws of 1894; chapter 717, Laws of 1896	3	1921	.....	125,000 00
Consolidated Stock (Buildings for Public Health and Comfort)	Chapter 122, Laws of 1896	3	1919	.....	25,000 00
Consolidated Stock (Bridge over Harlem River, Broadway Extension)	Chapter 399, Laws of 1896; chapter 86, Laws of 1897	3	1919	.....	45,000 00
Consolidated Stock (Public Bath, Rivington Street)	Chapter 122, Laws of 1896	3	1919	.....	30,000 00
Consolidated Stock (Bridge, Bronx River, at East One Hundred and Seventy-seventh Street)	Chapter 657, Laws of 1897	3	1919	.....	30,000 00
Consolidated Stock (Bridge over Tracks, New York and Harlem Railroad at East One Hundred and Fifty-third Street)	Chapter 650, Laws of 1897	3	1919	.....	50,000 00
Total					$114,489,576 81

Amount of Bonds and Stock, as per foregoing statement		$114,489,576 81
Amount of said Bonds and Stock, the redemption of which is provided for from the assets which the said Sinking Fund held on January 1, 1903, and the estimated accumulations thereof in subsequent years (including all those maturing in the years 1909 to 1924, inclusive, and a portion of those maturing in the year 1925)		106,536,800 57
Amount of the balance of said Bonds and Stock, the redemption of which is to be provided for (including the balance of those maturing in the year 1925, and all those maturing in the years 1926, 1927 and 1928)		$7,952,776 24

Amount required to be set apart out of the Revenues of the said Sinking Fund in the year 1910 for the redemption of the above stated balance of Bonds and Stock, viz.:

	Amount to Be Provided For.	Amount to Be Set Apart.
Balance of amount of Bonds and Stock due in 1925	$922,776 24	$28,434 32
Amount of Bonds and Stock due in 1926	1,030,000 00	29,918 81
Amount of Bonds and Stock due in 1927	4,000,000 00	109,711 38
Amount of Bonds and Stock due in 1928	2,000,000 00	51,876 64
Total	$7,952,776 24	$219,941 15

Statement of the Liability of the Fund for Street and Park Openings (Section 175 of the Greater New York Charter), Consisting of Awards Unpaid and of Balance in the City Treasury to the Credit of said Fund on September 30, 1909, p. m.

Liability of the account September 30, 1908, for awards unpaid as per previous statement, dated October 8, 1908			$4,631,601 99
Awards in proceedings confirmed and entered from September 30, 1908, to September 30, 1909	$6,569,413 64		
Less			
Awards reversed, set aside and vacated, pursuant to Order of Supreme Court, and awards deducted by stipulation, as per detailed statement hereto attached	209,129 62		
		6,360,284 02	
		$10,991,886 01	
Warrants drawn from September 30, 1908, to and including September 30, 1909, on account of awards and interest thereon, as included in the reports of the Commissioners	$4,734,530 51		
Amount of warrants cancelled during said period	139,269 92		
		4,595,260 59	
Liability of account, September 30, 1909, p. m., for unpaid awards			$6,396,625 42
Cash balance to credit of account, September 30, 1909, p. m.			1,736,142 41
Excess of liability over cash balance			$4,660,483 01
Corporate Stock authorized to reimburse the Fund for Street and Park Openings and remaining unissued			$6,150,241 03

No Special Revenue Bonds have been issued to replenish the Fund for Street and Park Openings.

New York, October 29, 1909.

Memorandum in Relation to Appropriation for Account of the Fund for Street and Park Openings.

Section 174 of the Greater New York Charter, as amended by chapter 70 of the Laws of 1905, authorized the Comptroller to issue Street and Park Opening Assessment Bonds to replenish the Fund for Street and Park Openings to the extent of the uncollected assessments, which are liens on property benefited, and the assessments to be imposed in proceedings in which awards only have been confirmed.

The estimated amount of assessments in street and park opening proceedings remaining to be laid on property benefited thereby, in proceedings in which awards have been confirmed and substantially paid, is	$5,387,227 32	
And the estimated amount of assessments laid and not yet collected is	7,107,178 34	
Total		$12,494,405 66
Against which Assessment Bonds, Street and Park Openings, have been issued to the amount of		4,145,000 00
Balance		$8,349,405 66

Under authority contained in chapter 70 of the Laws of 1905, provisions can be made for any balance, or excess of liability over cash balance and Corporate Stock authorized to be issued for account of this fund by the issue of Assessment Bonds, Street and Park Openings, and the necessity of including said balance or excess in the Budget no longer exists.

STATEMENT OF FUND FOR STREET AND PARK OPENINGS—PROCEEDINGS CONFIRMED AND ENTERED FROM SEPTEMBER 30, 1908, TO SEPTEMBER 30, 1909, P. M. SHOWING AWARDS, TAXED COSTS, ASSESSMENTS, ETC.

Title of Proceeding.			Date of Confirmation.	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Remarks.
Opening and extending Pomeroy street (or Eighth avenue), from Jackson avenue to Riker avenue, in the First Ward, Borough of Queens—									
Awards	$22,923 55								
Interest	6,691 23								
		$29,614 78	May 5, 1906	$29,614 78	$6,577 24	$36,192 02	$42,482 13	.....	
Awards	$3,605 80								
Interest	1,748 82								
		5,354 62	June 20, 1908	5,354 62	935 49	6,290 11			
Opening and extending a public park, bounded by Rae street, German place, Carr street and St. Anns avenue, in the Twenty-third Ward, Borough of The Bronx			Aug. 12, 1908	210,541 01	21,266 54	231,807 55	.....	$231,807 55	Resolution, Board of Estimate and Apportionment, dated December 18, 1903.
Widening Riverside drive on the easterly side, from West One Hundred and Fifty-eighth street to West One Hundred and Sixty-fifth street, in the Twelfth Ward, Borough of Manhattan—First partial and separate report			Dec. 30, 1907	739,316 20	.....	739,316 20	.....	.....	Assessments for benefit to be made in the final report of Commissioners.
Opening Forty-sixth street, between Twelfth avenue and Seventeenth avenue, in the Thirtieth Ward, Borough of Brooklyn			Sept. 17, 1908	161 00	1,661 65	1,822 65	1,822 65	.....	
Opening East One Hundred and Forty-ninth street, from the Southern boulevard to the east side of Austin place, in the Twenty-third Ward, Borough of The Bronx—									
Last partial and separate report:									
Confirmed June 25, 1897:									
Awards	$20,935 00								
Costs	1,684 67								
		$22,619 67							
Confirmed, May 26, 1908:									
Costs		21,547 66							
Assessments		$44,167 33	May 26, 1909	.....	21,547 66	21,547 66	22,083 66	22,083 67	Chapter 613, Laws of 1896.
Opening and extending Brooklyn avenue, from Paerdegat Basin to Clarkson street, in the Twenty-ninth Ward, Borough of Brooklyn—									
Awards	$61,418 55								
Interest	2 90								
		$61,421 45	July 25, 1908	61,421 45	6,869 15	68,290 60	58,497 22	4,706 67	Section 980 of Charter.
								5,086 71	Resolution, Board of Estimate and Apportionment, dated February 3, 1905.
Opening and extending Weiher court, between Washington avenue and Third avenue, in the Twenty-third Ward, Borough of The Bronx			Oct. 24, 1908	52,887 00	4,719 54	57,606 54	51,606 54	6,000 00	Section 980 of Charter.
Opening and extending the public park bounded by Eastern parkway, Washington avenue and Classon avenue, in the Ninth Ward, Borough of Brooklyn			Nov. 25, 1907	119,232 37	3,882 64	123,115 01	.....	123,115 01	Resolution, Board of Estimate and Apportionment, dated June 23, 1905.
Opening and extending Woodlawn road, from Jerome avenue to Bronx Park, in the Twenty-fourth Ward, Borough of The Bronx—									
Confirmed May 15, 1905:									
Awards	$63,945 03								
Interest	11,818 99								
		$75,764 02							
Confirmed December 8, 1908:									
Awards		10,625 00							
		$86,389 02	Dec. 8, 1908	10,625 00	.....	10,625 00	.....	.....	Assessments for benefit not confirmed.
Opening and extending Bay Ridge parkway, between Sixty-sixth street and Sixty-seventh street, and extending from a few feet east of Ninth avenue for a distance of 434 feet to a point midway between Eighth and Ninth avenues, in the Thirtieth Ward, Borough of Brooklyn			Dec. 31, 1908	40,000 00	4,922 05	44,922 05	.....	44,922 05	Resolution, Board of Estimate and Apportionment, dated March 20, 1903.

Title of Proceeding.	Date of Confirmation.	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Remarks.
Opening Ninety-first street, from First avenue to Fifth avenue, in the Thirtieth Ward, Borough of Brooklyn—							
Awards..... $14,488 00							
Interest..... 1,485 00							
$15,973 00	July 20, 1908	15,973 00	2,225 61	18,198 61	.....	.....	Assessments for benefit not confirmed.
Opening and extending Delancey street, on the southerly side, from Clinton street to the Bowery, in the Tenth and Thirteenth Wards, Borough of Manhattan—							
Awards..... $143,000 00							
Interest..... 34,725 17							
$177,725 17	Nov. 27, 1908	177,725 17	77,531 92	255,257 09	.....	583,576 60	Resolution, Board of Estimate and Apportionment, dated July 28, 1903.
						3,955,682 91	Resolution, Board of Estimate and Apportionment, dated February 14, 1908.
Supplemental and amended last partial and separate report:							
Confirmed August 7, 1906:							
Awards..... $3,335,080 84							
Interest..... 431,892 95							
$3,766,973 79							
Confirmed October 8, 1906:							
Awards..... $457,750 00							
Interest..... 50,278 63							
517,028 63							
Confirmed December 13, 1906:							
Awards..... $143,000 00							
Interest..... 18,578 50							
161,518 50							
Confirmed November 27, 1908:							
Awards..... $143,000 00							
Interest..... 34,725 17							
177,725 17							
$4,623,246 09							
Less							
Awards reversed by Supreme Court, July 15, 1907:							
Awards..... $143,000 00							
Interest..... 18,518 50							
161,518 50							
$4,461,727 59							
Confirmed November 27, 1908:							
Costs..... 77,531 92							
$4,539,259 51							
Confirmed November 27, 1908:							
Assessments..... $583,576 60							
Assessments..... 3,955,682 91							
$4,539,259 51							
Opening and extending West One Hundred and Twenty-ninth street, from Convent avenue to Amsterdam avenue, in the Twelfth Ward, Borough of Manhattan.....	Dec 17, 1908	7 00	1,707 29	1,714 29	1,714 29	.....	
Opening Mount Vernon avenue, from Jerome avenue to the northern boundary of The City of New York, in the Twenty-fourth Ward, Borough of The Bronx—Supplemental and amended report	Jan. 22, 1907	95,567 99	11,873 84	107,441 83	.....	.....	Assessments for benefit not confirmed.
Opening and extending Waterloo place, between East One Hundred and Seventy-fifth street and East One Hundred and Seventy-sixth street, in the Twenty-fourth Ward, Borough of The Bronx—							
Awards..... $5,093 76							
Interest..... 372 43							
$5,466 19	Dec. 17, 1908	5,466 19	4,167 34	9,633 53	9,633 53	.....	
Opening and extending Forty-seventh street, between Eighteenth avenue and Gravesend avenue, in the Thirtieth Ward, Borough of Brooklyn.....	Nov. 10, 1908	11,584 93	4,801 97	16,386 90	16,386 90	.....	
Opening and extending Fiftieth street, from the old City line to New Utrecht avenue, in the Thirtieth Ward, Borough of Brooklyn—							
Awards..... $25,717 40							
Interest..... 3,506 34							
$29,223 74	Dec. 24, 1908	29,223 74	2,653 53	31,877 27	31,877 27	.....	
Opening and extending Academy street, from Hunter avenue to Grand avenue, in the First Ward, Borough of Queens—							
Awards..... $25,691 37							
Interest..... 4,967 09							
$30,658 46	Dec. 30, 1908	30,658 46	10,591 70	41,250 16	41,250 16	.....	
Opening and extending Avenue L, from the easterly side of Nostrand avenue to the westerly side of Flatbush avenue, in the Thirty-second Ward, Borough of Brooklyn.....	Jan. 11, 1909	11,494 45	3,035 39	14,529 84	13,319 50	1,210 34	Resolution, Board of Estimate and Apportionment, dated April 3, 1903.
Opening Crown street, from Albany avenue to East New York avenue, in the Twenty-fourth and Twenty-ninth Wards, Borough of Brooklyn	Dec. 31, 1908	68,205 65	6,005 02	74,210 67	69,170 14	3,640 53	Resolution, Board of Estimate and Apportionment, dated February 3, 1905.
						1,400 00	Section 980 of Charter.
Opening and extending of the addition to Corlears Hook Park, as laid out by the Board of Estimate and Apportionment on May 26, 1905, in the Seventh Ward, Borough of Manhattan—							
Awards..... $135,004 00							
Interest..... 20,048 10							
$155,052 10	Feb. 16, 1909	155,052 10	6,816 68	161,868 78	.....	161,868 78	Resolution, Board of Estimate and Apportionment, dated May 26, 1905.
Opening and extending West One Hundred and Sixtieth street, from Broadway to Riverside drive, in the Twelfth Ward, Borough of Manhattan—							
Last partial and separate report:							
First report, confirmed July 30, 1907:							
Awards..... $244,836 53							
Interest..... 1,305 78							
$246,142 31	Mar. 2, 1909	.....	4,632 39	4,632 39	250,774 70	.....	
Opening and extending West One Hundred and Sixty-first street, from Broadway to Riverside drive, in the Twelfth Ward, Borough of Manhattan—							
Last partial and separate report:							
First report, confirmed July 30, 1907:							
Awards..... $254,400 00	Mar. 2, 1909	.....	5,106 02	5,106 02	259,506 02	.....	
Opening and extending West One Hundred and Sixty-second street, from Broadway to Riverside drive, in the Twelfth Ward, Borough of Manhattan—							
Last partial and separate report:							
First report, confirmed December 11, 1907:							
Awards..... $246,244 00							
Interest..... 3,179 97							
$249,423 97	Mar. 2, 1909	.....	6,798 76	6,798 76	256,222 73	.....	
Opening and extending West One Hundred and Sixty-third street, from Fort Washington avenue to Riverside drive, in the Twelfth Ward, Borough of Manhattan—							
Last partial and separate report:							
First report, confirmed July 30, 1907:							
Awards..... $133,190 35	Mar. 2, 1909	.....	4,083 77	4,083 77	137,274 12	.....	
Opening and extending Lockwood street, from Paynter avenue to Grand avenue, in the First Ward, Borough of Queens—							
Confirmed April 16, 1906:							
Awards..... $20,371 63							
Interest..... 4,386 09							
$24,757 72							
Costs..... 4,667 31							
$29,425 03	Jan. 25, 1909	2,443 92	2,020 99	4,464 91	33,889 94	.....	
Opening and extending Potter avenue, from the East River to Chauncey street, and from Ranelie avenue to Flushing avenue, in the First Ward, Borough of Queens—							
Awards..... $64,010 69							
Interest..... 4,449 10							
$68,459 79	Dec. 16, 1908	68,459 79	4,990 05	73,449 84	72,139 16	1,310 68	Section 980 of Charter.

Title of Proceeding.			Date of Confirmation.	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Remarks.
Widening Third avenue on its easterly side, from Willis avenue to East One Hundred and Forty-ninth street, in the Twenty-third Ward, Borough of The Bronx—									
Supplemental and amended report:									
Awards	$35,000 00								
Interest	5,897 50								
		$40,897 50	Jan. 28, 1909	40,897 50	6,309 22	47,206 72	23,603 36	23,603 36	Resolution, Board of Estimate and Apportionment, dated May 26, 1905.
Opening and extending Henry street, from Ocean parkway to East Eighth street, in the Twenty-ninth Ward, Borough of Brooklyn—									
Awards	$5,611 38								
Interest	14 00								
		$5,625 38	Jan. 5, 1909	5,625 38	1,564 79	7,190 17	7,190 17	.....	
Opening and extending Joseph Rodman Drake Park, in the Twenty-third Ward, as laid out on the map February 17, 1905, Borough of The Bronx			Mar. 9, 1909	27,704 65	2,956 38	30,661 03	.....	30,661 03	Resolution, Board of Estimate and Apportionment, dated December 1, 1905.
Opening and extending Nicholas avenue, from Richmond terrace to the pierhead line, in the Third Ward, Borough of Richmond—									
Awards	$20,201 00								
Interest	2,060 50								
		$22,261 50	Mar. 9, 1909	22,261 50	2,748 37	25,009 87	25,009 87	.....	
Opening and extending Housman avenue, from the southerly line of Richmond terrace to the pier and bulkhead line, in the Third Ward, Borough of Richmond—									
Awards	$22,551 00								
Interest	2,514 44								
		$25,065 44	Mar. 9, 1909	25,065 44	2,706 15	27,771 59	27,771 59	.....	
Opening and extending Star avenue, from Borden avenue to Howard street, in the First Ward, Borough of Queens			Feb. 24, 1909	6,501 22	**4,926 79**	**11,428 01**	**9,430 37**	1,997 64	Section 980 of Charter.
Opening and extending William street, from Graham avenue to Thirteenth street, in the First Ward, Borough of Queens—									
Supplemental and amended report:									
Confirmed May 25, 1906:									
Awards	$56,675 51								
Costs	9,420 81								
		$66,096 32	Feb. 23, 1909	2,847 30	884 22	3,731 52	69,827 84	.....	
Widening Roebling street 20 feet on its westerly side, from the Bridge plaza at South Fourth street to Union avenue, in the Thirteenth and Fourteenth Wards, Borough of Brooklyn—									
Awards	$563,365 37								
Interest	103,659 15								
		$667,024 52	April 20, 1909	667,024 52	33,074 33	700,098 85	.....	700,098 85	Resolution, Board of Estimate and Apportionment, dated March 3, 1905.
Opening and extending West Two Hundred and Twenty-ninth street, from Bailey avenue to Heath avenue, in the Twenty-fourth Ward, Borough of The Bronx—									
Awards	$12,692 86								
Interest	1,375 06								
		$14,067 92	Feb. 11, 1909	14,067 92	1,498 19	15,566 11	15,566 11	.....	
Opening and extending Hatfield place, from Richmond avenue to Nicholas avenue, in the Third Ward, Borough of Richmond—									
Awards	$15,168 23								
Interest	1,342 22								
		$16,510 45	Mar 11, 1909	16,510 45	3,888 88	20,399 33	18,066 00	2,333 33	Section 980 of Charter.
Opening East Thirty-fourth street, from Clarkson street to Church avenue, in the Twenty-ninth Ward, Borough of Brooklyn—									
Awards	$17,027 34								
Interest	1,532 46								
		$18,559 80	Mar. 26, 1909	18,559 80	4,349 16	22,908 96	22,908 96	.....	
Opening and extending Otsego street, from Dwight street to Beard street, in the Twelfth Ward, Borough of Brooklyn			Mar. 29, 1909	1,602 00	**3,181 70**	**4,783 70**	**4,783 70**	.....	
Opening and extending Wilbur avenue, from Academy street to Van Alst avenue, in the First Ward, Borough of Queens— Supplemental and amended report			{ Oct. 17, 1906 { Mar. 24, 1909	6,409 82 2,545 82	2,967 54 2,105 94	9,377 36 } 4,651 76 }	**14,029 12**	.....	
Opening and extending Garrison avenue, from Longwood avenue to Hunts Point road, in the Twenty-third Ward, Borough of The Bronx—									
Awards	$99,086 87								
Interest	11,173 70								
		$110,260 57	Mar. 25, 1909	110,260 57	7,087 96	117,348 53	104,680 42	3,280 23 9,387 88	Section 980 of Charter. Resolution, Board of Estimate and Apportionment, dated December 18, 1905.
Opening and extending Fairview avenue, from Eleventh avenue to Broadway, in the Twelfth Ward, Borough of Manhattan—Supplemental and amended report:									
Confirmed January 3, 1907:									
Awards	$86,331 00								
Interest	11,323 75								
		$97,654 75							
Costs	6,375 93								
		$104,030 68	April 16, 1909	.....	5,323 89	5,323 89	109,354 57	.....	
Opening and extending Hawkstone street, from Walton avenue to the Grand Boulevard and Concourse, in the Twenty-fourth Ward, Borough of The Bronx—									
Awards	$23,377 94								
Interest	5,295 10								
		$28,673 04	Dec. 3, 1908	28,673 04	7,211 05	35,884 09	29,398 95	6,485 14	Section 980 of Charter.
Opening and extending East One Hundred and Fortieth street, from Park avenue to Morris avenue, in the Twenty-third Ward, Borough of The Bronx			Mar. 20, 1909	54,611 79	3,010 32	57,622 11	57,622 11	.....	
Opening and extending Johnson avenue, from the Spuyten Duyvil road to West Two Hundred and Thirtieth street, in the Twenty-fourth Ward, Borough of The Bronx—Supplemental and amended report			{ Oct. 4, 1906 { Mar. 20, 1909	1,571 57 2,562 52	3,867 28 3,119 14	5,438 85 } 5,681 66 }	10,361 85	758 66	Section 980 of Charter.
Opening and extending West One Hundred and Seventy-seventh street, from Amsterdam avenue to St. Nicholas avenue (as laid out on the map by resolution adopted March 31, 1905), and from Broadway to Riverside drive, in the Twelfth Ward, Borough of Manhattan—									
Awards	$410,024 80								
Interest	36,788 67								
		$446,813 47	Mar. 9, 1909	446,813 47	10,939 76	457,753 23	457,753 23	.....	
Opening Carroll street, from Albany avenue to East New York avenue, in the Twenty-fourth and Twenty-ninth Wards, Borough of Brooklyn			Mar. 1, 1909	79,379 57	5,591 56	84,971 13	78,616 74	2,216 67 4,137 72	Section 980 of Charter. Resolution, Board of Estimate and Apportionment, dated February 3, 1905.
Opening and extending Indiana avenue, between Jewett avenue and a point 198.08 feet westerly from Wooley avenue, in the First Ward, Borough of Richmond—									
Awards	$11,872 00								
Interest	1,009 23								
		$12,881 23	May 3, 1909	12,881 23	2,133 52	15,014 75	13,497 35	766 66 750 74	Section 980 of Charter. Resolution, Board of Estimate and Apportionment, dated April 22, 1904.
Acquiring title, etc., for an easement for the purpose of a sewer outlet over and in the private property at the foot of Nautilus street, in the Fourth Ward, Borough of Richmond—									
Awards	$801 00								
Interest	94 52								
		$895 52	May 17, 1909	895 52	1,776 26	2,671 78	2,671 78	.....	
Acquiring title, etc., for an easement for sewer purposes in Lyman avenue between Tompkins avenue and Summer street, in the Fourth Ward, Borough of Richmond			May 17, 1909	163 34	1,204 49	1,367 83	1,367 83	.....	
Opening East Ninety-fourth street, between Sea View avenue and East New York avenue, in the Twenty-ninth and Thirty-second Wards, Borough of Brooklyn			Nov. 9, 1908	115,703 18	13,835 55	129,538 73	122,360 40	7,178 33	Section 980 of Charter.

Title of Proceeding.			Date of Confirmation.	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Remarks.
Opening and extending Hunter avenue, from Nott avenue to Wilbur avenue, in the First Ward, Borough of Queens—									
Awards	$13,986 41								
Interest	266 48								
		$14,252 89	June 8, 1909	14,252 89	4,537 58	18,790 47	18,790 47	.....	
Opening and extending Webster avenue, from the East River to Jackson avenue, in the First Ward, Borough of Queens—									
Supplemental and amended report:									
Confirmed April 3, 1905:									
Awards	$37,652 09								
Interest	285 75								
		$37,937 84							
Costs		10,056 91							
		$47,994 75							
Confirmed May 17, 1909:									
Awards	$19,696 70								
Costs	3,778 89								
		23,475 59							
		$71,470 34							
Assessments on property	$47,885 13								
On City	23,585 21								
		$71,470 34	May 17, 1909	19,696 70	3,778 89	23,475 59	47,885 13	23,585 21	Resolution, Board of Estimate and Apportionment, dated May 4, 1906.
Opening and extending the fifth new street north of West One Hundred and Eighty-first street (Watkins place), extending from Broadway to first new avenue west of Broadway (Bennett avenue), in the Twelfth Ward, Borough of Manhattan....			June 28, 1909	31,109 10	2,295 94	33,405 04	33,405 04	.....	
Opening Perry avenue, from Mosholu Parkway to the southern line of Woodlawn Cemetery, in the Twenty-fourth Ward, Borough of The Bronx—Supplemental and amended report:									
Confirmed April 17, 1903:									
Awards	$6,653 96								
Costs	3,398 63								
		$10,052 59	Feb. 16, 1909	2,586 77	1,169 17	3,755 94	13,808 53	.....	
Extending High Bridge Park, as shown on a map filed in the office of the Register of the County of New York December 21, 1903, in accordance with the plan adopted by the Board of Estimate and Apportionment December 11, 1903, and approved by the Mayor December 18, 1903, in the Twelfth Ward, Borough of Manhattan—									
Last partial and separate report:									
Awards	$748,866 77								
Interest	177,481 42								
		$926,348 19	June 25, 1909	926,348 19	33,530 63	959,878 82	.....	.....	
Amount of costs not included in either report of the Commissioners			.....	.....	7,916 54	7,916 54	.....	967,795 36	Resolution, Board of Estimate and Apportionment, dated April 22, 1904.
First report confirmed June 12, 1908:									
Awards	$821,249 50								
Interest	149,193 65								
		$970,443 15							
Costs		52,716 86							
		$1,023,160 01							
Assessments on City		$1,023,160 01							
Opening and extending Ditmars avenue, from Steinway avenue westerly to the bulkhead line of the East River, in the First Ward, Borough of Queens—									
Awards	$23,830 39								
Interest	1,191 53								
		$25,021 83	May 18, 1907	25,021 83	3,219 29	28,241 12	.....	.....	
Awards	$22,677 00								
Interest	4,047 85								
		26,724 85	June 28, 1909	26,724 85	1,398 34	28,123 19	56,364 31	.....	
Costs		$51,746 68 4,617 63							
		$56,364 31							
Assessments		$56,364 31							
Opening and extending Payntar avenue, from Jackson avenue to Van Alst avenue, in the First Ward, Borough of Queens—									
Supplemental and amended report:									
Confirmed June 25, 1906:									
Awards	$28,662 16								
Costs	6,927 51								
		$35,589 67	July 20, 1909	9,579 00	2,682 12	12,261 12	47,850 79	.....	
Confirmed July 20, 1909:									
Awards	$9,579 00								
Costs	2,682 12								
		12,261 12							
Assessments		$47,850 79							
Opening and extending the approach to Manhattan Bridge (Bridge No. 3), as laid out by the Board of Estimate and Apportionment on the 29th day of May, 1903, from Fulton street to Nassau street, in the Fourth, Fifth and Eleventh Wards, Borough of Brooklyn—									
Last partial and separate report:									
Awards	$1,577,619 48								
Interest	216,603 27								
		$1,794,222 75	July 10, 1909	1,794,222 75	70,955 63	1,865,178 38	.....	1,865,178 38	Resolution, Board of Estimate and Apportionment, dated December 11, 1903.
First report, confirmed March 13, 1908:									
Awards	$938,363 42								
Interest	151,076 51								
		$1,089,439 93							
Assessments on City		$1,089,439 93							
Discontinuance and closing of West One Hundred and Fifty-first street, from the easterly side of Riverside Drive extension to the United States bulkhead line, Hudson River, in the Twelfth Ward, Borough of Manhattan.....			Aug. 27, 1909	17,760 71	15,761 00	33,521 71	33,521 71	.....	
Acquiring title, etc., for the construction of a bridge and approaches over the tracks of the New York and Harlem and the New York Central and Hudson River Railroad, within the lines of One Hundred and Fifty-third street, between Railroad Avenue East (now Park avenue) and Sheridan avenue, in the Twenty-third Ward, chapter 650, Laws of 1897, Borough of The Bronx.			July 14, 1909	47,000 06	.....	47,000 06	.....	.....	
Costs not included in report of Commissioners.....			.....	.....	28,884 03	26,884 03	.....	73,884 09	Chapter 650, Laws of 1897.
Opening and extending the triangular parcel of land bounded by Ninety-fourth street, Fourth avenue and Fifth avenue, in the Thirtieth Ward, Borough of Brooklyn.....			June 3, 1909	1,200 00	947 04	2,147 04	2,147 04	.....	
Opening and extending Forrest street, from Central avenue to Flushing avenue, in the Twenty-seventh Ward, Borough of Brooklyn—									
Awards	$1,713 00								
Interest	42 85								
		$1,755 85	July 10, 1909	1,755 85	2,427 74	4,183 59	4,183 59	.....	
Total				$6,569,413 64	$547,190 61	$7,116,604 25	$2,853,479 59	$8,870,510 78	
Less									
Extending Highbridge Park, as shown on a map filed in the office of the Register, County of New York, December 21, 1903, in accordance with the plan adopted by the Board of Estimate and Apportionment December 11, 1903, and approved by the Mayor December 18, 1903, in the Twelfth Ward, Borough of Manhattan—									
First Partial and Separate Report—Amount of awards and interest deducted as per stipulation dated March 26, 1908, and August 6, 1908:									
Awards	$40,291 50								
Interest	7,319 62								
		$47,611 12	.....	47,611 12	.....	47,611 12	.....	47,611 12	

Title of Proceeding.	Date of Confirmation.	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Remarks.
Less Opening and extending Delancey street on the southerly side, from Clinton street to the Bowery, in the Tenth and Thirteenth Wards, Borough of Manhattan— Amount of awards and interest reversed, vacated and set aside, pursuant to order of Supreme Court, dated July 15, 1907: Awards..... $143,000 00 Interest..... 18,518 50 $161,518 50	.....	161,518 50	.....	161,518 50	.....	.....	
Total.....		$6,360,284 02	$547,190 61	$6,907,474 63	$2,853,479 59	$8,822,899 66	

SUMMARY OF ABOVE STATEMENT BY BOROUGHS, LESS AWARDS, ETC., REVERSED, SET ASIDE, VACATED, DEDUCTED, ETC.

	September 30, 1908, to September 30, 1909.			Prior to September 30, 1908, Awards and Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on the City.	Assessments to Be Made in Final Report.	Assessments Reported but Not Confirmed.
	Awards.	Taxed Costs.	Total.						
Borough of Manhattan, total.....	$2,494,131 94	$182,444 59	$2,676,576 53	$5,432,708 23	$8,109,284 76	$1,539,526 41	$5,668,923 65	$739,316 20	.....
Less deductions, per foregoing statement.....	209,129 62	.....	209,129 62	.....	209,129 62	.....	47,611 12	.....	.....
Net.									
Borough of Manhattan, 13 proceedings.....	$2,285,002 32	$182,444 59	$2,467,446 91	$5,432,708 23	$7,900,155 14	$1,539,526 41	$5,621,312 53	$739,316 20	.....
Borough of The Bronx, 15 Proceedings.....	705,023 58	126,687 66	831,711 24	108,436 28	940,147 52	338,365 06	407,951 61	.....	$193,830 85
Borough of Brooklyn, 18 proceedings.....	3,042,369 64	171,984 51	3,214,354 15	.....	3,214,354 15	433,264 28	2,762,891 26	.....	18,198 61
Borough of Queens, 11 proceedings.....	250,111 00	51,616 18	301,727 18	179,105 77	480,832 95	453,939 42	26,893 53	.....	.....
Borough of Richmond, 6 proceedings.....	77,777 48	14,457 67	92,235 15	.....	92,235 15	88,384 42	3,850 73	.....	.....
Total.....	$6,360,284 02	$547,190 61	$6,907,474 63	$5,720,250 28	$12,627,724 91	$2,853,479 59	$8,822,899 66	$739,316 20	$212,029 46

SUMMARY.

	Awards.	Taxed Costs.	Total.	Assessments on Property Benefited.	Assessments and Charges on City.	Assessments to Be Made.
Total proceedings confirmed, etc., since September 30, 1908, p. m.....	$6,569,413 64	$547,190 61	$7,116,604 25	$2,853,479 59	$8,870,510 78	.....
Awards and costs confirmed and entered prior to September 30, 1908, p. m.....	5,665,899 52	54,350 76	5,720,250 28	.....	.....	.....
Assessments to be made with the final reports of the Commissioners in proceedings in which partial reports have been made and confirmed.....	.....	.....	.....	.....	.....	$739,316 20
Assessments reported but not confirmed.....	.....	.....	.....	.....	.....	212,029 46
	$12,235,313 16	$601,541 37	$12,836,854 53	$2,853,479 59	$8,870,510 78	$951,345 66
Less Amounts reversed, set aside and vacated, pursuant to order of Supreme Court, and amount deducted as per stipulation.....	209,129 62	.....	209,129 62	.....	47,611 12	.....
	$12,026,183 54	$601,541 37	$12,627,724 91	$2,853,479 59	$8,822,899 66	$951,345 66

CITY OF NEW YORK—DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 18, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—For the purpose of guilding you in your determination as to the amount to be included in the Budget for the year 1910 to provide for deficiencies in the product of taxes, pursuant to the provisions of chapter 209, Laws of 1906, I beg to transmit herewith a statement showing the deficiencies in the product of taxes as at December 31, 1908, as compiled from the books and records of this department.

Respectfully,
H. A. METZ, Comptroller.

Statement of Deficiencies in Product of Taxes, as at December 31, 1908.

Uncollected personal taxes.....		$12,236,928 29
Levy of 1905.....	$4,638,229 10	
Levy of 1906.....	3,771,183 64	
Levy of 1907.....	3,827,515 55	
Discount allowed.....		1,529,244 38
Tax of 1905.....	$513,076 79	
Tax of 1906.....	526,351 76	
Tax of 1907.....	489,815 83	
Cancellations.....		3,202,282 63
As at December 31, 1906.....	$654,625 78	
From January 1, 1907, to December 31, 1907.....	1,379,367 88	
From January 1, 1908, to December 31, 1908.....	1,168,288 97	
Deductions from Special Franchise taxes, pursuant to the provisions of section 46, General Tax Laws.....		185,798 93
		$17,154,254 23
Less—		
Amount provided for in tax levy of 1905.....	$1,744,816 56	
Amount provided for in tax levy of 1906.....	1,845,061 71	
Amount provided for in Budget of 1907.....	3,000,000 00	
Amount provided for in Budget of 1908.....	3,000,000 00	
Amount provided for in Budget of 1909.....	2,922,447 08	
		12,512,325 35
Net amount.....		$4,641,928 88

STATE OF NEW YORK,
COMPTROLLER'S OFFICE,
ALBANY, September 22, 1909.

Hon. HERMAN A. METZ, *City Comptroller, New York City:*

DEAR SIR—The Board of Aldermen of The City of New York, acting for and in lieu of the Board of Supervisors of the County of Kings, as provided by chapter 466, Laws of 1901, are required to raise the sum of $46,662.97 for the fiscal year ending September 30, 1910, as provided by chapter 432, Laws of 1909, as follows:

For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909.....	$17,101 62
For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909.....	18,872 85
For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909.....	10,688 50
	$46,662 97

Very respectfully,
OTTO KELSEY, Deputy Comptroller.

STATE OF NEW YORK,
COMPTROLLER'S OFFICE,
ALBANY, September 22, 1909.

Hon. HERMAN A. METZ, *City Comptroller, New York City:*

DEAR SIR—The Board of Aldermen of The City of New York, acting for and in lieu of the Board of Supervisors of the County of Queens, as provided by chapter 466, Laws of 1901, are required to raise the sum of $49,105.86 for the fiscal year ending September 30, 1910, as provided by chapter 432, Laws of 1909, as follows:

For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161 of said chapter.....	$32,751 94
For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909.....	3,694 09
For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160 and section 279 of chapter 30 of the Consolidated Laws of 1909.	6,274 32
For compensation of the Justices of the Supreme Court, designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909.....	4,076 70
For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909.....	2,308 81
	$49,105 86

Very respectfully,
OTTO KELSEY, Deputy Comptroller.

STATE OF NEW YORK,
COMPTROLLER'S OFFICE,
ALBANY, September 22, 1909.

Hon. HERMAN A. METZ, *City Comptroller, New York City:*

DEAR SIR—The Board of Aldermen of The City of New York, acting for and in lieu of the Board of Supervisors of the County of Richmond, as provided by chapter 466, Laws of 1901, are required to raise the sum of $10,962.51 for the fiscal year ending September 30, 1910, as provided by chapter 432, Laws of 1909, as follows:

For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161 of said chapter.....	$7,311 62
For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909.....	824 68
For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160, and section 279 of chapter 30 of the Consolidated Laws of 1909..	1,400 69
For compensation of the Justices of the Supreme Court, designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909.....	910 09
For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909.....	515 43
	$10,962 51

Very respectfully,
OTTO KELSEY, Deputy Comptroller.

The Comptroller presented the Departmental Estimates for the year 1910, also printed copies thereof bound and indexed, which were ordered printed in separate volumes of the minutes.

The Comptroller presented the following Departmental Estimates, received too late to be incorporated in the volume above referred to, which were ordered printed in the minutes of this date, viz.:

Office of District Attorney, Queens County (supplemental).
Permanent Census Board.
Supreme Court, First Department (supplemental).
Office of Sheriff, Richmond County.
Department of Water Supply, Gas and Electricity (supplemental).
Office of District Attorney, New York County (supplemental).
Coroner's Physicians of Queens County.
Charitable Institutions Division, Department of Finance (supplemental).
Department of Public Charities (supplemental).
Fire Department (supplemental).

DISTRICT ATTORNEY'S OFFICE,
QUEENS COUNTY, N. Y.,
LONG ISLAND CITY, October 5, 1909.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment*, No. 277 Broadway, New York City:

DEAR SIR—I respectfully request that the following item be included in the Budget for this office for the year 1910, viz.: For serving subpoenas on witnesses for the Grand Jury and Trial Courts, $2,000.

This was not included in the original estimate for 1910 as heretofore all subpoenas have been served by the Sheriff's office, that being a fee office. Hereafter that office will be a salaried office and no provision has been made in the Sheriff's estimate for 1910 for this work.

I am of the opinion that the amount asked for, $2,000, will be insufficient for that purpose as I find, upon inquiry at the Sheriff's office, that the cost of serving subpoenas has been in the neighborhood of from $6,000 to $8,000 per year.

Respectfully,
FRED G. DeWITT, District Attorney.

POLICE DEPARTMENT, CITY OF NEW YORK,
No. 300 MULBERRY STREET,
October 6, 1909.

To the Honorable Board of Estimate and Apportionment:

GENTLEMEN—At a meeting of the Permanent Census Board, established this day, the Mayor, Superintendent of Schools and the Police Commissioner being present, the following proceedings were had:

Resolved, That the Board of Estimate and Apportionment be and is hereby requested to appropriate to the Permanent Census Board, established in pursuance of chapter 249 of the Laws of 1908, the following amounts for the purpose of defraying the necessary expenses in carrying the said act into effect:

Secretary	$4,000 00	
Stenographer	1,200 00	
Clerks, 6 at $1,200 per annum each	7,200 00	
Clerks, 7 at $1,050 per annum each	7,350 00	
Clerks, 7 at $900 per annum each	6,300 00	
For printing and stationery	7,500 00	
Contingencies	1,000 00	
Total		$34,550 00

Very respectfully,
WM. F. BAKER, Police Commissioner, Temporary Secretary.

COUNTY CLERK'S OFFICE, COUNTY OF NEW YORK,
NEW COUNTY COURT HOUSE,
NEW YORK, October 8, 1909.

Board of Estimate and Apportionment:

GENTLEMEN—The Justices of the Supreme Court, First Department, request me to add to Departmental Estimate of said Court for 1910 the sum of twenty-three thousand dollars. Salaries of two official Referees, at $11,500 each, viz.: Hon. Henry A. Gildersleeve and Hon. Edward Patterson, at present Justices of the Supreme Court, First Department, and who will retire from said Court on December 31, 1909.

The additional sum asked for is authorized by chapter 379, Laws of 1908.

Respectfully yours,
PETER J. DOOLING, Clerk, County of New York.

SHERIFF'S OFFICE, RICHMOND COUNTY,
RICHMOND, N. Y., October 8, 1909.

Board of Estimate and Apportionment, No. 277 Broadway:

GENTLEMEN—Enclosed please find Departmental Estimate for the year 1910, which I herewith transmit as per your request.

Yours respectfully,
JOSEPH J. BARTH, Sheriff, Richmond County.

Title of Appropriation: Salaries and Wages, Sheriff, Richmond County, Court Officers.

Title of Position.	Estimate for 1910 Rate.	Estimate for 1910 Number of Employees.	Estimate for 1910 Amount.	Annual Expense, Basis as of June 30, 1909. Number of Employees.	Annual Expense, Basis as of June 30, 1909. Amount. Appropriation.	Annual Expense, Basis as of June 30, 1909. Amount. Revenue Bonds.	Annual Expense, Basis as of January 1, 1909. Number of Employees.	Annual Expense, Basis as of January 1, 1909. Amount. Appropriation.	Annual Expense, Basis as of January 1, 1909. Amount. Revenue Bonds.	Annual Expense, Basis as of June 30, 1908. Number of Employees.	Annual Expense, Basis as of June 30, 1908. Amount. Appropriation.	Annual Expense, Basis as of June 30, 1908. Amount. Revenue Bonds.	Annual Expense, Basis as of January 1, 1908. Number of Employees.	Annual Expense, Basis as of January 1, 1908. Amount. Appropriation.	Annual Expense, Basis as of January 1, 1908. Amount. Revenue Bonds.
Sheriff	$6,000 00	1	$6,000 00	1	$6,000 00	.....	1	$6,000 00	.....	1	$6,000 00	.....	1	$6,000 00	.....
Jailer	900 00	1	900 00	1	900 00	.....	1	900 00	.....	1	900 00	.....	1	900 00	.....
Guard	*3 00	5	5,475 00	3	3,285 00	.....	3	3,285 00	.....	3	3,294 00	.....	3	3,294 00	.....
Matron	800 00	2	1,600 00	2	1,600 00	.....	2	1,600 00	.....	2	1,600 00	.....	2	1,600 00	.....
Cook	500 00	1	500 00	1	500 00	.....	1	500 00	.....	1	500 00	.....	1	500 00	.....
Farmhand	360 00	1	360 00	1	360 00	.....	1	360 00	.....	1	360 00	.....	1	360 00	.....
Court Officer	*2 00	6	1,700 00	6	1,600 00	.....	6	1,600 00	.....	6	1,600 00	.....	6	1,600 00	.....
Total	..	..	$16,535 00	..	$14,245 00	.....	..	$14,245 00	.....	..	$14,254 00	.....	..	$14,254 00	.....

* Per day.

JOS. J. BARTH, Sheriff, Richmond County.

Recapitulation of Estimates for Department Expenditures Other than Salaries and Wages

	1908 Expenditures. Total.	1908 Expenditures. Appropriation.	1908 Expenditures. Revenue Bonds.	Six Months Ending June 30, 1909. Total.	Six Months Ending June 30, 1909. Appropriation.	1909 Allowance.	1910 Estimate.	Increase, 1910 Over 1909.	Increase, 1910 Over 1908.
Budget estimate	$9,464 73	$8,500 00	.....	$5,517 49	$5,517 49	$9,300 00	$11,600 00	$2,300 00	$2,135 27
Budget allowance for supplies, etc	.....	$8,500 00	.....	.....	$5,517 49	$9,300 00	.....	.....	.....
Transfers—									
Dr	.....	.....	$1,095 91	.....	.....	.....	.....	.....	.....
Cr	.....	.....	131 18	.....	.....	.....	.....	.....	.....
Net transfers	.....	.....	$964 73	.....	.....	.....	.....	.....	.....
Net Budget allowance	.....	$8,500 00		.....	$5,517 49	.....	.....	.....	.....
Revenue Bonds	.....	964 73		.....	.....	.....	.....	.....	.....
Total resources	.....	$9,464 73		.....	$5,517 49	$9,300 00	.....	.....	.....
Expenditures.									
General Supplies	$5,632 11	.....	.....	.....	$3,699 32	.....	$7,500 00	.....	.....
Repairs and Replacements by Contract or Open Order	.....	.....	.....	.....	.....	.....	300 00	.....	.....
Apparatus, Machinery, Vehicles, Harness, etc., Including Care and Storage	273 70	.....	.....	.....	38 82	.....	.....	.....	.....
Purchase of Furniture and Fittings	79 15	.....	.....	.....	.....	.....	.....	.....	.....
Purchase of Horses	325 00	.....	.....	.....	.....	.....	.....	.....	.....
Forage, Shoeing and Boarding Horses	678 20	.....	.....	.....	438 97	.....	750 00	.....	.....
Fuel	1,121 75	.....	.....	.....	781 45	.....	1,500 00	.....	.....
Telephone Service	168 82	.....	.....	.....	126 62	.....	250 00	.....	.....
Contingencies	1,185 95	.....	.....	.....	432 51	.....	1,300 00	.....	.....
Total expenditures	$9,464 68	.....	.....	.....	$5,517 49	.....	$11,600 00	.....	.....

JOS. J. BARTH, Sheriff, Richmond County.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY,
Nos. 13 TO 21 PARK ROW,
NEW YORK, October 8, 1909.

Hon. GEORGE B. McCLELLAN, *Mayor:*

SIR—I transmit herewith schedules of salaries and wages, estimate 1910, monthly payrolls, Bureau of Water Register, Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, as a substitute for the schedules embodied in the original Departmental Estimate for 1910. The revision of the schedules is made necessary, owing to the requirements of the new system of audit and control instituted by the Finance Department.

Respectfully,
JOHN H. O'BRIEN, Commissioner.

BUREAU OF WATER REGISTER, BOROUGH OF QUEENS.

SCHEDULE OF SALARIES AND WAGES, ESTIMATE FOR 1910, MONTHLY PAYROLLS.

Title of Appropriation: Water Supply, Borough of Queens, Distribution, Water Registration, Permits and Revenue Collections, Salaries and Wages, Folio No. 294.

	Rate.	Number of Employees.	Budget as at June 30, 1909.	Increase in Clerks. Number.	Increase in Clerks. Amount.	Number of Employees.	Budget, 1910.
Cashier	$1.500 00	1	$1,500 00	..	.....	1	$1,500 00
Financial Clerk	1,500 00	1	1,500 00	..	.....	1	1,500 00
Clerk	1,500 00	1	1,500 00	..	.....	1	1,500 00
Clerk	1,350 00	1	1,350 00	..	.....	1	1,350 00
Clerk	1,200 00	1	1,200 00	..	.....	1	1,200 00
Clerk	1,050 00	..	.....	1	$1,050 00	1	1,050 00
Clerk	600 00	1	600 00	..	.....	1	600 00
Stenographer and Typewriter	1,000 00	1	1,000 00	..	.....	1	1,000 00
Inspector of Meters	1,000 00	6	6,000 00	2	2,000 00	8	8,000 00
Messenger	900 00	..	.....	1	900 00	1	900 00
Temporary Clerk	900 00	..	.....	2	450 00	2	450 00
Total		13	$14,650 00	6	$4,400 00	19	$19,050 00

BUREAU OF WATER REGISTER, BOROUGH OF RICHMOND.

SCHEDULE OF SALARIES AND WAGES, ESTIMATE FOR 1910, MONTHLY PAYROLLS.

Title of Appropriation: Water Supply, Borough of Richmond, Distribution, Water Registration, Permits and Revenue Collections, Salaries and Wages, Folio No. 370.

	Rate.	Number of Employees.	Budget as at June 30, 1909.	Increase in Clerks. Number.	Increase in Clerks. Amount.	Number of Employees.	Budget, 1910.
Water Register	$2,500 00	..	.....	1	$2,500 00	1	$2,500 00
Cashier	1,500 00	1	$1,500 00	..	.....	1	1,500 00
Clerk	1,800 00	..	.....	1	1,800 00	1	1,800 00
Clerk	1,500 00	2	3,000 00	..	.....	2	3,000 00
Clerk	1,200 00	..	.....	2	2,400 00	2	2,400 00
Clerk	1,050 00	2	2,100 00	5	5,250 00	7	7,350 00
Clerk, Temporary	900 00	..	.....	3	750 00	3	750 00
Stenographer and Typewriter	1,050 00	1	1,050 00	..	.....	1	1,050 00
Bookkeeper	1,200 00	1	1,200 00	..	.....	1	1,200 00
Chief Inspector	1,800 00	..	.....	1	1,800 00	1	1,800 00
Inspector	1,200 00	1	1,200 00	1	1,200 00	2	2,400 00
Inspector	1,000 00	6	6,000 00	3	3,000 00	9	9,000 00
Messenger	1,200 00	..	.....	1	1,200 00	1	1,200 00
Laborer	782 50	..	.....	3	2,347 50	3	2,347 50
Total		14	$16,050 00	21	$22,247 50	35	$38,297 50

BUREAU OF WATER REGISTER, BOROUGH OF THE BRONX.

SCHEDULE OF SALARIES AND WAGES, ESTIMATE FOR 1910, MONTHLY PAYROLLS.

Title of Appropriation: Water Supply, Borough of The Bronx, Distribution, Water Registration, Permits and Revenue Collections, Salaries and Wages, Folio No. 194.

	Rate.	Number of Employees.	Budget as at June 30, 1909.	Increase in Clerks. Number.	Increase in Clerks. Amount.	Number of Employees.	Budget, 1910.
Water Register	$3,000 00	1	$3,000 00	..	.....	1	$3,000 00
Cashier	2,500 00	1	2,500 00	..	.....	1	2,500 00
Clerk	1,650 00	..	.....	2	$3,300 00	2	3,300 00
Clerk	1,500 00	1	1,500 00	..	.....	1	1,500 00
Clerk	1,350 00	1	1,350 00	..	.....	1	1,350 00
Clerk	1,050 00	1	1,050 00	2	2,100 00	3	3,150 00
Clerk	900 00	1	900 00	2	1,800 00	3	2,700 00
Clerk	600 00	7	4,200 00	..	.....	7	4,200 00
Measurer	1,500 00	1	1,500 00	..	.....	1	1,500 00
Measurer	1,200 00	2	2,400 00	..	.....	2	2,400 00
Measurer	1,000 00	1	1,000 00	..	.....	1	1,000 00
General Inspector of Meters	1,650 00	1	1,650 00	..	.....	1	1,650 00
Inspector of Meters	1,000 00	13	13,000 00	3	3,000 00	16	16,000 00
Inspector of Meters	1,200 00	..	.....	2	2,400 00	2	2,400 00
Messenger	900 00	1	900 00	..	.....	1	900 00
Stenographer and Typewriter	1,050 00	1	1,050 00	..	.....	1	1,050 00
Total		33	$36,000 00	11	$12,600 00	44	$48,600 00

BUREAU OF WATER REGISTER, BOROUGH OF BROOKLYN.

SCHEDULE OF SALARIES AND WAGES, ESTIMATE FOR 1910, MONTHLY PAYROLLS.

Title of Appropriation: Water Supply, Borough of Brooklyn, Distribution, Water Registration, Permits and Revenue Collections, Salaries and Wages, Folio No. 224.

	Rate.	Number of Employees.	Budget as at June 30, 1909.	Increase in Clerks. Number.	Increase in Clerks. Amount.	Number of Employees.	Budget, 1910.
Water Register	$4,000 00	1	$4,000 00	..	.....	1	$4,000 00
Cashier	2,250 00	1	2,250 00	..	.....	1	2,250 00
Financial Clerk	2,100 00	1	2,100 00	..	.....	1	2,100 00
Clerk	2,000 00	1	2,000 00	..	.....	1	2,000 00
Clerk	1,350 00	4	5,400 00	..	.....	4	5,400 00
Clerk	1,200 00	10	12,000 00	..	.....	10	12,000 00
Clerk	1,050 00	5	5,250 00	1	$1,050 00	6	6,300 00
Clerk	1,000 00	1	1,000 00	2	2,000 00	3	3,000 00
Clerk	900 00	1	900 00	2	1,800 00	3	2,700 00
Clerk	750 00	1	750 00	..	.....	1	750 00
Clerk	600 00	1	600 00	3	1,800 00	4	2,400 00
Messenger	900 00	1	900 00	..	.....	1	900 00
Inspector	1,500 00	1	1,500 00	..	.....	1	1,500 00
Inspector	1,000 00	4	4,000 00	..	.....	4	4,000 00
Measurer	1,500 00	1	1,500 00	..	.....	1	1,500 00
Measurer	1,000 00	1	1,000 00	..	.....	1	1,000 00
Temporary Clerk	900 00	2	450 00	8	1,800 00	10	2,250 00
Total		37	$45,600 00	16	$8,450 00	53	$54,050 00

WATER SUPPLY, GAS AND ELECTRICITY, BOROUGHS OF MANHATTAN AND THE BRONX.

DISTRIBUTION: WATER REGISTRATION, PERMITS AND REVENUE COLLECTIONS.

Salaries and Wages, Manhattan, Folio No. 164.

Title of Position.	Rate.	1909. No.	1909. Amount.	New Clerks. No.	New Clerks. Amount.	Total. No.	Total. Amount.
Water Register	.....	1	$4,000 00	..	.....	1	$4,000 00
Secretary	.....	..	.....	1	$1,800 00	1	1,800 00
Auditor	.....	..	.....	1	3,500 00	1	3,500 00
Cashier	.....	1	2,500 00	..	.....	1	2,500 00
Financial Clerk	.....	1	2,000 00	..	.....	1	2,000 00
Financial Clerk	.....	1	1,350 00	..	.....	1	1,350 00
Clerk	.....	1	2,250 00	..	.....	1	2,250 00
Clerk	$1,800 00	..	.....	5	9,000 00	5	9,000 00
Clerk	1,650 00	..	.....	2	3,300 00	2	3,300 00
Clerk	1,500 00	6	9,000 00	..	.....	6	9,000 00
Clerk	1,350 00	7	9,450 00	..	.....	7	9,450 00
Clerk	1,200 00	7	8,400 00	3	3,600 00	10	12,000 00
Clerk	1,050 00	10	10,500 00	4	4,200 00	14	14,700 00
Clerk	900 00	..	.....	15	13,500 00	15	13,500 00
Clerk	750 00	6	4,500 00	..	.....	6	4,500 00
Clerk	600 00	37	22,200 00	..	.....	37	22,200 00
Clerk	.....	1	300 00	..	.....	1	300 00
Stenographer and Typewriter	1,200 00	2	2,400 00	..	.....	2	2,400 00
Stenographer and Typewriter	900 00	2	1,800 00	..	.....	2	1,800 00
Typewriting Copyist	900 00	5	4,500 00	2	1,800 00	7	6,300 00
Telephone Operator	.....	1	900 00	..	.....	1	900 00
Automobile Engineman	.....	1	1,500 00	..	.....	1	1,500 00
Measurer	.....	1	1,500 00	..	.....	1	1,500 00
Measurer	1,000 00	2	2,000 00	2	2,000 00	4	4,000 00
Pilot (8 months)	.....	1	1,500 00	..	.....	1	1,500 00
Engineman (8 months), per day	4 50	1	1,094 66	..	.....	1	1,094 66
Stoker (8 months), per day	3 00	1	730 00	..	.....	1	730 00
Deckhand (8 months), per day	2 50	1	608 83	1	608 83	2	1,217 66
Watchman (8 months), per day	2 50	..	.....	2	1,217 66	2	1,217 66
Temporary Clerk	900 00	4	900 00	2	450 00	6	1,350 00
General Inspector	.....	1	1,800 00	..	.....	1	1,800 00
Inspector of Meters and Water Consumption	.....	1	1,500 00	..	.....	1	1,500 00
Inspector of Meters and Water Consumption	.....	1	1,350 00	..	.....	1	1,350 00
Inspector of Meters and Water Consumption	1,200 00	10	12,000 00	29	34,800 00	39	46,800 00
Inspector of Meters and Water Consumption	1,100 00	2	2,200 00	..	.....	2	2,200 00
Inspector of Meters and Water Consumption	1,000 00	69	69,000 00	10	10,000 00	79	79,000 00
Total		185	$183,733 49	79	$89,776 49	264	$273,509 98

Three $600 Clerks vacant.

DISTRICT ATTORNEY'S OFFICE,
COUNTY OF NEW YORK,
October 14, 1909.

To the Honorable the Board of Estimate and Apportionment, City of New York:

GENTLEMEN—I hereby respectfully request that the salary schedule supporting appropriation, entitled Salaries, General Administration, District Attorney's Office, County of New York, in the Budget for the year 1910, be amended as follows:

The proposed modifications, which are necessary for the proper conduct of this office during the year 1910 merely involves a transfer of funds, and would not necessitate any additional appropriation, to wit:

First—Amend schedule of positions of this appropriation by striking therefrom the item Stenographer to the Grand Jury, at $2,500 per annum, substituting therefor one Stenographer at $2,500 per annum.

Second—Amend the schedule of positions of said appropriation by eliminating therefrom the item, two Stenographers, at $1,800 per annum, inserting in lieu thereof one Stenographer, at $1,800 per annum.

Third—Amend schedule of positions of this appropriation by inserting six Stenographers at $1,500 per annum.

Fourth—Amend the schedule of positions of this appropriation by striking out the item fifteen Stenographers at $1,200 per annum, inserting in lieu thereof nine Stenographers at $1,200 per annum.

Fifth—By further amending the schedule of positions of said appropriation by adding thereto two Telephone Switchboard Operators at $720 per annum each.

The funds necessary for the payment of the salaries of the two Telephone Switchboard Operators can be met by the transfer of $1,440 from the appropriation entitled Rental of Telephones, District Attorney's Office, County of New York, to appropriation entitled Salaries, General Administration, District Attorney's Office, County of New York.

Respectfully,
CHARLES G. NOTT, Jr., Acting District Attorney.

JAMAICA, N. Y., October 13, 1909.

To the Honorable Board of Estimate and Apportionment, New York City:

GENTLEMEN—The Coroner's Physicians of the Borough of Queens respectfully request that if the appropriation for their expenses be allowed as suggested by your Honorable Board, that the sum of five hundred dollars each per year, be added to their salaries, which are now fifteen hundred dollars each per year, so as to be separate from and not included in the Budget in the appropriation for contingent expenses, which will be used by the Coroners.

Respectfully submitted,
WILLIAM H. NAMMACK, M. D.,
TIMOTHY J. FLYNN, M. D.,
WALTER G. FREY, M. D.,
Coroner's Physicians.

CITY OF NEW YORK, DEPARTMENT OF FINANCE,
COMPTROLLER'S OFFICE,
October 14, 1909.

SUPPLEMENT TO PRIVATE CHARITABLE INSTITUTIONS, BUDGET ALREADY SUBMITTED.

Italian Hospital and Dispensaries, Nos. 165 to 173 West Houston street, is an institution duly incorporated with the approval of the State Board of Charities, gives hospital care and treatment of standard quality and has a first class equipment. Uninformed as to the proper times of making application for a place in the Budget of 1910, the board of managers only now apply.

After investigation, our Examiners find that the hospital has been giving about one thousand days of free treatment each month of the present year, and expects to continue its work on that scale. It is doing an efficient service among the sick and needy in the Italian community of the city and furnishes hospital treatment that, but for its excellent organization, would be required of the public hospitals.

It is recommended that this institution be placed in the Budget for 1910, already presented, with an apportionment of $5,100.

Very respectfully submitted,
D. C. POTTER, Chief Examiner of Accounts of Institutions.

DEPARTMENT OF PUBLIC CHARITIES,
FOOT OF EAST TWENTY-SIXTH STREET,
October 15, 1909.

To the Honorable the Board of Estimate and Apportionment:

GENTLEMEN—Upon the recommendation of the Department of Finance Division of Inspection, I would respectfully request that the sum of $6,780 be allowed to this Department in the Budget for the year 1910, to be used in the manufacture of disinfectants and vermin destroyers, required by other City Departments, it having been discovered by the Department of Finance that the City pays to dealers in these supplies prices entirely too high, when the value of the ingredients are considered.

This money to be expended as follows:

Employees—		
One Apothecary, per annum	$1,050 00	
One Hospital Helper, per annum	480 00	
		$1,530 00
—to be added to the employees of the General Drug Department, a Bureau of this Department, in which the manufacture of these will be carried on under the direction of the Chemist of the Department.		
One large boiler	$250 00	
To purchase of ingredients	5,000 00	
		5,250 00
		$6,780 00

This sum of $5,250, I would suggest be appropriated under a separate item, to be known as the "Bureau of Disinfectants."

Respectfully yours,
ROBT. W. HEBBERD, Commissioner.

HEADQUARTERS, FIRE DEPARTMENT—CITY OF NEW YORK,
NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET,
BOROUGH OF MANHATTAN, October 18, 1909.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment:*

SIR—I have the honor to request that the Departmental Estimate of this Department for the year 1910 be reduced to the extent of $22,200, provided the full number of promotions in the uniformed force for which provision is asked therein, namely,

thirty-seven, and which is no more than the fire protection interests of the City demand, is allowed, it having been determined that the sum of $600 per annum (the difference between the salary of a first grade Fireman, $1,400, and that of a fourth grade Fireman, $800) may be saved on each of these proposed advancements in rank. Should, however, the Board of Estimate and Apportionment allow for a less number of promotions this amount of $22.200 would require to be proportionately reduced. In explanation of this request it is proper to state that the estimate of the amount required for these promotions was based upon the assumption that for every promotion a new appointment of a first grade Fireman would be required, at $1,400 per annum, whereas it has since been determined that in each such case a fourth grade Fireman, at $800 per annum, would be necessary.

Provision has likewise been asked in the Departmental Estimate for 1910 for sixty-one additional fourth grade Firemen, at $800 each, a total of $48,800, for the purpose of strengthening the uniformed force, in connection with which request I have to state that there is now a limited number of members of the uniformed force detailed to the performance of clerical and mechanical duties in several of the bureaus and branches of the service, eighteen of whom could be remanded to fire duty, with the effect of reducing the number of new Firemen required from sixty-one to forty-three, permitting of a reduction in the amount required for this purpose from $48,800 to $34,400, with a saving of $14,400 per annum on this item, provided the following additional civilian help were substituted in their stead:

BOROUGHS OF MANHATTAN, THE BRONX AND RICHMOND.

Headquarters—			
2 Clerks at $1,200 each per annum		$2,400 00	
Bureau of Chief of Department—			
2 Clerks at $1,200 each per annum		2,400 00	
Repair Shops—			
1 Stationary Engineer at $4.50 per day	$1,642 50		
1 Electrician at $4 per day	1,216 00		
		2,858 50	
			$7,658 50

BOROUGHS OF BROOKLYN AND QUEENS.

Office of the Deputy Commissioner—			
1 Bookkeeper, per annum	$1,500 00		
1 Storekeeper, per annum	1,500 00		
1 Inspector of Fuel, per annum	1,500 00		
1 Inspector of Buildings, per annum	1,800 00		
1 Chauffeur, per annum	1,400 00		
1 Watchman, per annum	912 50		
1 Laborer, per annum	912 00		
		$9,524 50	
Hospital and Training Stables—			
1 Driver, per annum	$1,000 00		
3 Stablemen at $912.50 each, per annum	2,737 50		
		3,737 50	
			13,262 00
Aggregate			$20,920 50

Unless, however, provision be made in the Budget for 1910 for the replacement of the eighteen detailed Firemen in question with civilian employees, the full number of sixty-one additional Firemen called for in the Departmental Estimate will be necessary.

Respectfully,
NICHOLAS J. HAYES, Fire Commissioner.

The following resolution was offered:

BUDGET FOR 1910.

Resolved, That, pursuant to the provisions of section 226 of the Greater New York Charter, the Board of Estimate and Apportionment makes this the Budget of The City of New York for the year one thousand nine hundred and ten, being: First, the amounts estimated to be required to pay the expenses of conducting the public business of said City for the said year, viz., one hundred and fifty-three million seven hundred and seventy-five thousand one hundred and forty-five dollars and fifty-three cents ($153,775,145.53); Second, the amounts estimated to be required to pay the charges and expenses of the Counties of New York, Kings, Queens and Richmond for the said year, viz., five million three hundred and fifty-five thousand one hundred and twenty-four dollars and eighty-four cents ($5,355,124.84), and, Third, the amount estimated to be the deficiency on January 1, 1909, in the product of taxes theretofore levied, deemed to be uncollectible and not otherwise provided for, as required by chapter 209 of the Laws of 1906, viz., four million dollars ($4,000,000).

Be it further Resolved, That, in pursuance of the provisions of section 226 of the Greater New York Charter, the Board of Estimate and Apportionment makes this the Budget of The City of New York for the year one thousand nine hundred and ten, with the exception that the items contained in the schedules under the titles "Salaries" or "Salaries and Wages," in the different Boards, Offices, Bureaus and Departments of the City and County governments, shall be administered under the following terms and conditions:

First—That no change shall be made by any Board or head of an Office, Bureau or Department in the City or County governments in the schedules of "Salaries" and "Salaries and Wages," herein contained, except when authorized thereto by twelve (12) votes of the Board of Estimate and Apportionment, and when such change will not increase the monthly rate of the total amount herein appropriated for the said schedules of "Salaries" and "Salaries and Wages" for monthly payrolls in the different Boards, Offices, Bureaus and Departments of the City or County governments.

Second—(a) That the heads of the several Boards, Offices, Bureaus and Departments of the City and County governments shall prepare their several payrolls for audit by the Department of Finance in accordance with the items of the aforesaid schedules, entitled "Salaries" and "Salaries and Wages"; and (b) set forth on monthly payrolls the monthly pro rata expenditures of (said) appropriations for monthly payrolls; (c) affix to all payrolls a certificate made by the person preparing such payrolls to the effect that there is a time record on file in said Board, Office, Bureau or Department, certified by the person or persons having knowledge of the facts, showing the character of service and the exact time of employment of such person or persons on said payrolls, and that the distribution or division of the time of such person or persons as shown on such payrolls is in accordance with such time record

Be it further Resolved, That all appropriations for (1) supplies; (2) general supplies; (3) materials for repairs and replacements; (4) fuel, and (5) forage, to any Board, Office, Bureau or Department of the City or County governments, made in this Budget, be made under the following conditions:

First—That, in so far as practicable, all contracts and open market orders for the purchase of such "Supplies," "General Supplies," "Materials for Repairs and Replacements," "Fuel" and "Forage" be based upon specifications which are definite and certain as to character and quality, and which conform with standard specifications for the various classes of supplies, materials, fuel and forage hereafter to be promulgated by this Board.

Second—That, in so far as such standard specifications may hereafter be established by this Board, the Comptroller, at the time of certifying as to the sufficiency of appropriations out of which contracts for "Supplies," "General Supplies," "Materials for Repairs and Replacements," "Fuel" and "Forage" are to be paid, shall also certify that the specifications for such supplies or materials for which standard specifications have ben prescribed, are in conformance with such standard specifications.

Third—That all open market orders issued by any Department for supplies or materials, for which standard specifications shall have been prescribed, shall contain a description of the goods ordered, conforming with such standard specifications.

Fourth—That the Comptroller shall, in auditing claims for goods delivered on open market orders, determine, through inspection or otherwise, whether the goods delivered conform with such standard specifications.

BUDGET FOR 1910.
THE CITY OF NEW YORK.

THE MAYORALTY.

THE EXECUTIVE.

1	Salaries		$50,300 00	
2	Contingencies		2,500 00	
3	Telephone Service		1,500 00	
				$54,300 00

BUREAU OF LICENSES.

	Salaries—			
4	Chief of Bureau		$3,500 00	
5	Manhattan and The Bronx		26,750 00	
6	Brooklyn		4,850 00	
7	Queens		1,200 00	
8	Richmond		1,200 00	
9	Contingencies		10,300 00	
10	Telephone Service		200 00	
				48,000 00

BUREAU OF WEIGHTS AND MEASURES.

11	Salaries		$30,100 00	
12	Contingencies		2,500 00	
13	General Supplies		500 00	
				33,100 00
				$135,400 00

THE BOARD OF ALDERMEN AND CITY CLERK.

GENERAL ADMINISTRATION.

14	Salaries		$201,150 00	
15	Contingencies		2,500 00	
				$203,650 00

OFFICE, PRESIDENT BOARD OF ALDERMEN.

16	Salaries			5,500 00

OFFICE OF CITY CLERK.

	Salaries—			
17	Manhattan		$19,450 00	
18	Marriage License Bureau		14,350 00	
19	The Bronx		1,500 00	
20	Brooklyn		12,456 00	
21	Queens		2,000 00	
22	Richmond		1,500 00	
23	Contingencies		1,000 00	
				52,256 00
				261,406 00

DEPARTMENT OF FINANCE.

THE COMPTROLLER.

24	Salary, Comptroller		$15,000 00	

MAIN OFFICE.

25	Salaries	$397,200 00		
26	General Supplies	20,000 00		
27	Contingencies	35,000 00		
			452,200 00	
28	Division of Bookkeeping, General Supplies		5,000 00	
29	Telephone Service		6,000 00	
30	Special Contract Obligations		5,000 00	
31	Maintenance of Automobiles, including Equipment, Care and Storage		10,000 00	

AUDITING BUREAU.

32	Salaries		485,100 00	
33	Contingencies, Division of Inspection		10,000 00	
34	Contingencies, Division of City Paymaster		3,000 00	

BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS.

35	Salaries	$65,460 00		
36	General Supplies	10,000 00		
			75,460 00	

BUREAU FOR THE COLLECTION OF CITY REVENUE AND MARKETS.

37	Salaries		33,050 00	

BUREAU FOR THE COLLECTION OF TAXES.

38	Salaries		199,080 00	
39	For the Employment of Temporary Clerks, All Boroughs		33,000 00	

BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS.

40	Salaries	$163,750 00		
41	General Supplies	5,000 00		
			168,750 00	
				$1,500,640 00

THE CHAMBERLAIN.

42	Salaries		$52,550 00	
43	General Supplies		1,350 00	
44	Contingencies		300 00	
45	Telephone Service		350 00	
				54,550 00
				1,555,190 00

INTEREST ON THE CITY DEBT.

46	The City of New York	$19,788,776 53	
47	The City of New York, as constituted prior to January 1, 1898	2,759,410 29	
48	The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	2,143,258 20	
49	Corporations in Queens County	390,214 91	
50	Corporations in Richmond County	97,100 56	
51	Interest on Bonds and Stock to be issued in 1909 after September 30, and in 1910	2,000,000 00	
52	Interest on Revenue Bonds	5,000,000 00	
			$32,178,760 49

REDEMPTION OF THE CITY DEBT.

53	The City of New York	$5,500,000 00	
54	The City of New York, as constituted prior to January 1, 1898	20,133 20	

55	The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	1,204,000 00	
56	Corporations in Queens County	296,640 48	
57	Corporations in Richmond County	83,546 71	
			7,104,320 39
	INSTALLMENTS PAYABLE IN 1910.		
58	The City of New York (General)	$4,917,486 19	
59	The City of New York (Water Bonds)	1,264,193 67	
60	The City of New York, as constituted prior to January 1, 1898 (Water Bonds)	579,224 60	
61	The City of Brooklyn, as constituted prior to January 1, 1898	397,593 71	
62	Long Island City	2,116 67	
			7,160,614 84
			46,443,695 72

LAW DEPARTMENT.

63	Salaries and Wages	$633,410 00	
64	General Supplies	7,500 00	
65	Telephone Service	7,500 00	
66	Contingencies	107,500 00	
67	Contingent Counsel Fees, including Deficiencies	15,000 00	
68	Fees of Expert Witnesses and Disbursements in Proceedings to Review Assessments for Taxation, including Deficiencies	37,500 00	
69	Expenses in Connection with Actions and Proceedings brought by or against Gas and Electric Light Companies and Other Public Utility Corporations, including Deficiencies	15,000 00	
70	For Compensation and Expenses of Counsel and Experts in Proceedings for Review of Assessments of Special Franchises made by the State Board of Tax Commissioners, pursuant to Chapter 155, Laws of 1906	20,000 00	
			843,410 00

DEPARTMENT OF BRIDGES.

General Administration.

71	Salaries	$57,350 00	
72	General Supplies	1,000 00	
73	Purchase of Furniture and Fittings	350 00	
74	Maintenance of Automobiles, including Equipment, Care and Storage	4,000 00	
75	Telephone Service	3,500 00	
76	Contingencies	1,000 00	
			$67,200 00

Bridges Over the Harlem River and in the Borough of Manhattan.

77	Salaries	$93,850 00	
78	Wages	150,057 60	
79	General Supplies	4,200 00	
80	Materials for Repairs and Replacements by Departmental Labor	17,500 00	
81	Repairs and Replacements by Contract or Open Order.	24,500 00	
82	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	1,250 00	
83	Forage, Shoeing and Boarding Horses	2,610 00	
84	Fuel	9,000 00	
85	Emergency Snow Removal	6,000 00	
86	Contingencies	347 00	
			309,314 60

Bridges Over Newtown Creek and in the Borough of Queens.

87	Salaries	$68,200 00	
88	Wages	34,588 30	
89	General Supplies	1,325 00	
90	Materials for Repairs and Replacements by Departmental Labor	4,900 00	
91	Repairs and Replacements by Contract or Open Order.	5,400 00	
92	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	100 00	
93	Forage, Shoeing and Boarding Horses	500 00	
94	Hired Teams, Horses and Carts	900 00	
95	Fuel	150 00	
96	Emergency Snow Removal	1,500 00	
97	Contingencies	600 00	
			118,163 30

Bridges in the Boroughs of Brooklyn and Richmond.

98	Salaries	$51,245 00	
99	Wages	9,511 50	
100	General Supplies	865 00	
101	Materials for Repairs and Replacements by Departmental Labor	4,750 00	
102	Repairs and Replacements by Contract or Open Order.	14,500 00	
103	Maintenance of Automobiles, including Equipment, Care and Storage	800 00	
104	Fuel	150 00	
105	Contingencies	625 00	
			82,446 50

Bridges in the Borough of The Bronx.

106	Salaries	$27,200 00	
107	Wages	13,446 30	
108	General Supplies	600 00	
109	Materials for Repairs and Replacements by Departmental Labor	3,500 00	
110	Repairs and Replacements by Contract or Open Order.	4,410 00	
111	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	150 00	
112	Maintenance of Automobiles, including Equipment, Care and Storage	500 00	
113	Forage, Shoeing and Boarding Horses	350 00	
114	Hired Teams, Horses and Carts	192 00	
115	Fuel	200 00	
116	Contingencies	870 00	
			51,418 30

Queensboro Bridge.

117	Salaries	$50,155 00	
118	Wages	76,609 55	
119	General Supplies	2,415 00	
120	Purchase of Furniture and Fittings	500 00	
121	Fuel	500 00	
122	Materials for Repairs and Replacements by Departmental Labor	10,800 00	
123	Repairs and Replacements by Contract or Open Order.	15,000 00	
124	Maintenance of Automobiles, including Equipment, Care and Storage	800 00	
125	Hired Teams, Horses and Carts	9,120 00	
126	Emergency Snow Removal	8,000 00	
127	Contingencies	500 00	
			174,399 55

Manhattan Bridge.

128	Salaries	$18,855 00	
129	Wages	30,980 00	
130	General Supplies	2,500 00	
131	Materials for Repairs and Replacements by Departmental Labor	11,600 00	
132	Repairs and Replacements by Contract or Open Order.	2,500 00	
133	Hired Teams, Horses and Carts	4,864 00	
134	Fuel	600 00	
135	Emergency Snow Removal	6,000 00	
136	Contingencies	400 00	
			78,299 00
			881,241 25

DEPARTMENT OF DOCKS AND FERRIES.

General Administration.

137	Salaries	$51,550 00	
138	General Supplies	7,500 00	
139	Maintenance of Automobiles, including Equipment, Care and Storage	2,300 00	
140	Contingencies	650 00	
			$62,000 00

Bureau of Accounts.

141	Salaries	$39,000 00	
142	General Supplies	2,500 00	
143	Contingencies	900 00	
			42,400 00

Bureau of Engineering.

144	Salaries	$9,800 00	
145	Wages	180,000 00	
146	General Supplies	3,500 00	
147	Materials for Repairs and Replacements by Departmental Labor	150,000 00	
	Repairs and Replacements by Contract or Open Order—		
148	Repairs to Piers, Bulkheads and Slips	$50,000 00	
149	Repairs to Recreation Structures	50,000 00	
150	Repairs to Pavements	30,000 00	
151	Dredging	80,000 00	
		210,000 00	
152	Hired Teams, Horses and Carts	3,000 00	
153	Contingencies	3,400 00	
			559,700 00

Bureau of Superintendence.

154	Salaries	$112,078 00	
155	Wages	314,726 00	
156	General Supplies	7,500 00	
157	Purchase of Furniture and Fittings	700 00	
158	Hired Teams, Horses and Carts	28,000 00	
159	Telephone Service	2,000 00	
160	Maintenance of Automobiles, including Equipment, Care and Storage	1,300 00	
161	Contingencies	2,450 00	
162	Removal of Snow and Incumbrances	2,500 00	
	Special Contract Obligations—		
163	Sprinkling	$7,000 00	
164	Music	34,344 00	
165	Electric Lighting	10,500 00	
		51,844 00	
			523,098 00

Bureau of Ferries.

Administration.

166	Salaries	$45,800 00	
167	General Supplies	4,500 00	
168	Telephone Service	2,500 00	
169	Contingencies	3,700 00	
			$56,500 00

Operation.

170	Salaries	$746,780 00	
171	Wages	101,014 00	
172	General Supplies	25,000 00	
173	Hired Teams, Horses and Carts	26,200 00	
174	Fuel	360,000 00	
175	Charter of Ferryboats	5,000 00	
176	Electric Light and Power	35,000 00	
			1,298,994 00

Maintenance.

177	Wages of Mechanical and Labor Force Engaged on Repairs	$84,000 00	
178	Materials for Repairs and Replacements by Departmental Labor	42,000 00	
179	Repairs and Replacements by Contract or Open Order	100,000 00	
180	Insurance on Ferryboats	53,240 00	
			279,240 00
			1,634,734 00
			2,821,932 00

TENEMENT HOUSE DEPARTMENT.

GENERAL ADMINISTRATION.

181	Salaries and Wages		$29,470 00
	Administration—		
182	Salaries and Wages	$392,682 50	
	Division of Inspection Review—		
183	Salaries and Wages	50,850 00	
	Division of New Buildings, Complaints and Inspection of Pending Violations—		
	Inspection Force:		
184	Salaries and Wages	294,450 00	
	Division of Structural Work—		
185	Salaries and Wages	41,400 00	
			779,382 50
186	General Supplies		3,900 00
187	Contingencies		19,500 00
188	Telephone Service		850 00
			833,102 50

DEPARTMENT OF BELLEVUE AND ALLIED HOSPITALS.

GENERAL ADMINISTRATION.

189	Salaries and Wages		$38,765 00
	Bellevue Hospital, Administration—		
190	Salaries and Wages	$17,120 00	
	Bellevue Hospital, Operation and Maintenance—		
191	Salaries and Wages	237,611 00	
	Bellevue Hospital, Nurses' Residence—		
192	Salaries and Wages	15,948 00	
			270,679 00
	Gouverneur Hospital, Administration—		
193	Salaries and Wages	$3,180 00	
	Gouverneur Hospital, Operation and Maintenance—		
194	Salaries and Wages	58,506 50	
			61,686 50
	Harlem Hospital, Administration—		
195	Salaries and Wages	$4,860 00	
	Harlem Hospital, Operation and Maintenance—		
196	Salaries and Wages	54,714 50	
			59,574 50
	Fordham Hospital, Administration—		
197	Salaries and Wages	$5,240 00	
	Fordham Hospital, Operation and Maintenance—		
198	Salaries and Wages	46,260 50	
			51,500 50
			$482,205 50
199	General Supplies	$456,975 00	
200	Materials for Repairs and Replacements by Departmental Labor	15,000 00	
201	Repairs and Replacements by Contract or Open Order	42,940 00	
202	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	5,650 00	
203	Purchase of Furniture and Fittings	11,650 00	
204	Purchase of Automobile Ambulance	3,000 00	
205	Maintenance of Automobile Ambulances, including Equipment, Care and Storage	1,500 00	
206	Purchase of Horses	1,950 00	
207	Forage, Shoeing and Boarding Horses	8,390 00	
208	Contingencies	4,650 00	
209	Fuel	87,650 00	
210	Telephone Service	5,500 00	
211	Special Contract Obligations	15,000 00	
			659,855 00
			1,142,060 50

DEPARTMENT OF CORRECTION.

GENERAL ADMINISTRATION.

	Office of the Commissioner—		
212	Salaries and Wages		$21,880 00
	Office of the General Bookkeeper and Auditor—		
213	Salaries and Wages		13,790 00
214	General Supplies		445,665 50
215	Materials for Repairs and Replacements by Departmental Labor		23,000 00
216	Repairs and Replacements by Contract or Open Order		28,000 00
217	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		7,000 00
218	Maintenance of Automobiles, including Equipment, Care and Storage		1,500 00
219	Purchase of Horses		2,500 00
220	Forage, Shoeing and Boarding Horses		16,500 00
221	Fuel		110,000 00
222	Telephone Service		6,000 00
223	Contingencies		4,600 00
224	Donations to Discharged Prisoners		5,000 00
225	Transportation of Insane Criminals		500 00
226	Manufacturing Supplies—Penitentiary		75,000 00
227	Manufacturing Supplies—Reformatory, Harts Island		10,000 00

ADMINISTRATION.

	Salaries and Wages—		
228	Central Office Stables	$11,100 00	
229	Storehouse	6,980 00	
230	Steamboats and Piers	40,555 00	
			58,635 00

ADMINISTRATION OF INSTITUTIONS.

	Salaries and Wages—		
231	District Prisons		53,790 00
232	City Prison		67,852 00
233	Workhouse		79,060 50
234	Penitentiary		105,153 00
235	Branch Workhouse, Harts Island		45,217 50
236	Reformatory, Harts Island		20,320 00
237	Branch Workhouse, Rikers Island		22,655 00
238	Bertillon System		1,200 00
239	City Prison, Brooklyn		46,532 50
			1,271,351 00

DEPARTMENT OF HEALTH.

GENERAL ADMINISTRATION.

	Salaries and Wages—		
240	Office of the Commissioner	$20,850 00	
241	Office of the Secretary	13,040 00	
242	Office of the Sanitary Superintendent	43,160 00	
243	Office of the General Medical Officer	10,730 00	
244	General Supplies	1,300 00	
245	Repairs and Replacements by Contract or Open Order	575 00	
246	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	225 00	
247	Purchase of Furniture and Fittings	1,275 00	
248	Maintenance of Automobiles, including Equipment, Care and Storage	3,000 00	
249	Forage, Shoeing and Boarding Horses	1,400 00	
250	Hire of Automobile	200 00	
251	Contingencies	23,250 00	
252	Special Contract Obligations	69,880 00	
			$188,885 00

ADMINISTRATION.

Bureau of Records.

253	Salaries and Wages	$62,810 00	
254	General Supplies	1,000 00	
255	Repairs and Replacements by Contract or Open Order	150 00	
256	Purchase of Furniture and Fittings	500 00	
257	Contingencies	400 00	
			64,860 00

Division of the Chief Clerk.

258	Salaries and Wages	$95,160 50	
259	General Supplies	3,500 00	
260	Materials for Repairs and Replacements by Departmental Labor	500 00	
261	Repairs and Replacements by Contract or Open Order	3,000 00	
262	Purchase of Furniture and Fittings	1,500 00	
263	Fuel	2,500 00	
264	Telephone Service	20,000 00	
265	Contingencies	8,000 00	
			134,160 50

Division of Child Hygiene.

266	Salaries and Wages	$341,490 00	
267	General Supplies	3,000 00	
268	Repairs and Replacements by Contract or Open Order	200 00	
269	Purchase of Furniture and Fittings	200 00	
270	Forage, Shoeing and Boarding Horses	300 00	
271	Contingencies	3,000 00	
			348,190 00

Division of District Medical Inspection.

272	Salaries and Wages	$213,277 50	
273	General Supplies	11,000 00	
274	Repairs and Replacements by Contract or Open Order	6,000 00	
275	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	4,000 00	
276	Purchase of Furniture and Fittings	1,500 00	
277	Maintenance of Automobiles, including Equipment, Care and Storage	2,000 00	
278	Purchase of Horses	2,000 00	
279	Forage, Shoeing and Boarding Horses	15,000 00	
280	Hired Teams, Horses and Carts	1,000 00	
281	Fuel	1,000 00	
282	Contingencies	5,000 00	
			261,777 50

Division of Communicable Diseases.

283	Salaries and Wages	$328,920 00	
284	General Supplies	33,075 00	
285	Repairs and Replacements by Contract or Open Order	800 00	
286	Purchase of Furniture and Fittings	3,850 00	
287	Maintenance of Automobiles, including Equipment, Care and Storage	1,500 00	
288	Forage, Shoeing and Boarding Horses	800 00	
289	Fuel	200 00	
290	Contingencies	13,000 00	
			382,145 00

Division of General Sanitary Inspection.

291	Salaries and Wages	$135,100 00	
292	General Supplies	1,800 00	
293	Repairs and Replacements by Contract or Open Order	700 00	
294	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	500 00	
295	Purchase of Furniture and Fittings	800 00	
296	Purchase of Horses	700 00	
297	Forage, Shoeing and Boarding Horses	1,600 00	
298	Contingencies	2,000 00	
			143,200 00

Division of Food Inspection.

299	Salaries and Wages	$45,630 00	
300	General Supplies	2,050 00	
301	Purchase of Furniture and Fittings	200 00	
302	Contingencies	1,000 00	
			48,880 00

Division of Milk Inspection, City and Country.

303	Salaries and Wages	$86,520 00	
304	General Supplies	2,050 00	

305	Purchase of Furniture and Fittings	700 00	
306	Contingencies	35,000 00	
			124,270 00

Sanitary Police.

307	Salaries and Wages		103,800 00

LABORATORIES.

Research and Vaccine.

308	Salaries and Wages	$49,350 00	
309	General Supplies	13,000 00	
310	Repairs and Replacements by Contract or Open Order	200 00	
311	Purchase of Furniture and Fittings	300 00	
312	Purchase of Horses	2,000 00	
313	Forage	100 00	
314	Contingencies	1,000 00	
			65,950 00

Chemical.

315	Salaries and Wages	$12,540 00	
316	General Supplies	2,400 00	
317	Repairs and Replacements by Contract or Open Order	100 00	
318	Purchase of Furniture and Fittings	100 00	
319	Contingencies	100 00	
			15,240 00

Drug.

320	Salaries and Wages	$8,100 00	
321	General Supplies	20,000 00	
322	Repairs and Replacements by Contract or Open Order	150 00	
323	Purchase of Furniture and Fittings	100 00	
324	Contingencies	125 00	
			28,475 00

HOSPITALS.

Willard Parker and Reception.

325	Salaries and Wages	$128,133 00	
326	General Supplies	80,000 00	
327	Materials for Repairs and Replacements by Departmental Labor	3,500 00	
328	Repairs and Replacements by Contract or Open Order	1,000 00	
329	Purchase of Furniture and Fittings	5,500 00	
330	Fuel	12,000 00	
331	Contingencies	300 00	
			230,433 00

Hospital Clinics for Contagious Eye Diseases.

332	Salaries and Wages	$28,530 00	
333	General Supplies	7,500 00	
334	Materials for Repairs and Replacements by Departmental Labor	100 00	
335	Repairs and Replacements by Contract or Open Order	800 00	
336	Purchase of Furniture and Fittings	200 00	
337	Fuel	400 00	
			37,530 00

Riverside.

338	Salaries and Wages	$112,291 50	
339	General Supplies	76,000 00	
340	Materials for Repairs and Replacements by Departmental Labor	2,500 00	
341	Repairs and Replacements by Contract or Open Order	3,500 00	
342	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	500 00	
343	Purchase of Furniture and Fittings	1,500 00	
344	Fuel	23,000 00	
345	Forage, Shoeing and Boarding Horses	600 00	
346	Contingencies	400 00	
			220,291 50

Kingston Avenue.

347	Salaries and Wages	$118,087 50	
348	General Supplies	30,000 00	
349	Materials for Repairs and Replacements by Departmental Labor	6,000 00	
350.	Repairs and Replacements by Contract or Open Order.	2,000 00	
351	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	750 00	
352	Purchase of Furniture and Fittings	1,500 00	
353	Fuel	18,000 00	
354	Contingencies	300 00	
			176,637 50

Tuberculosis Sanatorium, Otisville.

355	Salaries and Wages	$62,848 00	
356	General Supplies	75,000 00	
357	Materials for Repairs and Replacements by Departpartmental Labor	5,000 00	
358	Repairs and Replacements by Contract or Open Order.	1,500 00	
359	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	2,000 00	
360	Purchase of Furniture and Fittings	4,000 00	
361	Maintenance of Automobiles, including Equipment, Care and Storage	500 00	
362	Purchase of Horses	600 00	
363	Forage, Shoeing and Boarding Horses (Forage for Cows)	6,000 00	
364	Hired Teams, Horses and Carts	100 00	
365	Fuel	6,000 00	
366	Telephone Service	450 00	
367	Contingencies	5,000 00	
			168,998 00

Hospital Service, Richmond.

368	Contingencies		4,000 00
			2,747,723 00

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

GENERAL ADMINISTRATION.

	Salaries and Wages—		
369	Commissioners and Central Office	$67,150 00	
370	Laboratories	32,917 00	
			$100,067 00
	General Supplies—		
371	Commissioners and Central Office	$900 00	
372	Laboratories	4,000 00	
			4,900 00
373	Repairs and Replacements by Contract or Open Order.		100 00
374	Purchase of Furniture and Fittings		750 00
375	Maintenance of Automobiles, including Equipment, Care and Storage		1,800 00
376	Hired Teams, Horses and Carts		1,250 00
377	Telephone Service		4,000 00
378	Contingencies		11,000 00
379	Taxes		60,000 00
			183,867 00

WATER SUPPLY, BOROUGHS OF MANHATTAN AND THE BRONX.

Administration.

	Salaries—		
380	Office of Deputy Commissioner, The Bronx	$5,950 00	
381	Office of Chief Engineer	19,600 00	
		$25,550 00	
382	General Supplies	750 00	
383	Purchase of Furniture and Fittings	600 00	
384	Telephone Service	5,000 00	
385	Contingencies	100 00	
			$32,000 00

COLLECTION AND STORAGE, CROTON AND BRONX SYSTEMS —CARE OF WATERSHEDS, AQUEDUCTS, PONDS AND RESERVOIRS.

386	Salaries, Croton Water System	$20,600 00	
387	Salaries, Bronx River System	4,500 00	
388	Wages, Croton Water System	138,627 00	
389	Wages, Bronx River System	21,968 50	
		$185,695 50	
390	General Supplies	2,000 00	
391	Materials for Repairs and Replacements by Departmental Labor	10,000 00	
392	Repairs and Replacements by Contract or Open Order	4,500 00	
393	Purchase of Furniture and Fittings	250 00	
394	Hired Teams, Horses and Carts	39,000 00	
395	Fuel	2,275 00	
396	Contingencies	4,500 00	
			248,220 50

COLLECTION AND STORAGE—PUMPING STATIONS.

397	Salaries and Wages	$134,701 30	
398	General Supplies	7,000 00	
399	Materials for Repairs and Replacements by Departmental Labor	9,230 00	
400	Repairs and Replacements by Contract or Open Order	23,000 00	
401	Hired Teams, Horses and Carts	5,775 00	
402	Fuel	64,560 00	
403	Contingencies	240 00	
			244,506 30

DISTRIBUTION — MAINTENANCE OF CROTON AND BRONX SYSTEMS.

404	Salaries	$12,000 00	
405	Wages	297,601 30	
406	General Supplies	6,000 00	
407	Materials for Repairs and Replacements by Departmental Labor	40,000 00	
408	Repairs and Replacements by Contract or Open Order	40,000 00	
409	Hired Teams, Horses and Carts	62,000 00	
410	Fuel	2,000 00	
411	Contingencies	500 00	
			460,101 30

DISTRIBUTION—WATER REGISTRATION—PERMITS AND REVENUE COLLECTIONS.

MANHATTAN.

412	Salaries and Wages	$240,513 00	
413	General Supplies	940 00	
414	Repairs and Replacements by Contract or Open Order	480 00	
415	Purchase of Furniture and Fittings	1,780 00	
416	Maintenance of Automobiles, including Equipment, Care and Storage	1,500 00	
417	Contingencies	5,745 00	
		$250,958 00	

THE BRONX.

418	Salaries and Wages	$48,930 00	
419	General Supplies	350 00	
420	Purchase of Furniture and Fittings	100 00	
421	Hired Teams, Horses and Carts.	3,360 00	
422	Contingencies	850 00	
			53,590 00

DEPARTMENT BOAT.

423	Salaries and Wages	$5,759 98	
424	General Supplies	250 00	
425	Repairs and Replacements by Contract or Open Order	2,000 00	

426	Fuel	2,000 00		
427	Contingencies	400 00		
			10,409 98	
			314,957 98	
				1,299,786 08

WATER SUPPLY, BOROUGH OF BROOKLYN.
Administration.

428	Salaries, Office of Deputy Commissioner		$12,250 00	

DISTRIBUTION — WATER REGISTRATION — PERMITS AND REVENUE COLLECTIONS, BUREAU OF WATER REGISTRAR.

429	Salaries	$52,700 00		
430	General Supplies	300 00		
431	Purchase of Furniture and Fittings	300 00		
432	Contingencies	900 00		
			54,200 00	
				66,450 00

WATER SUPPLY, BOROUGH OF QUEENS.
Administration.

433	Salaries, Office of Deputy Commissioner	$5,550 00		
434	Salaries, Office of Chief Engineer	4,400 00		
			$9,950 00	
435	General Supplies		200 00	
436	Purchase of Furniture and Fittings		200 00	
437	Maintenance of Automobiles, including Equipment, Care and Storage		500 00	
438	Telephone Service		2,000 00	
				$12,850 00

COLLECTION AND STORAGE—PUMPING STATIONS AND STAND PIPES.

439	Salaries and Wages		$64,605 00	
440	General Supplies		3,200 00	
441	Materials for Repairs and Replacements by Departmental Labor		4,200 00	
442	Repairs and Replacements by Contract or Open Order		3,000 00	
443	Hired Teams, Horses and Carts		720 00	
444	Fuel		32,000 00	
445	Contingencies		1,300 00	
				109,025 00

DISTRIBUTION—MAINTENANCE.

446	Salaries		$4,500 00	
447	Wages		32,094 80	
448	General Supplies		3,000 00	
449	Materials for Repairs and Replacements by Departmental Labor		4,000 00	
450	Repairs and Replacements by Contract or Open Order		3,000 00	
451	Hired Teams, Horses and Carts		3,600 00	
452	Fuel		155 00	
453	Contingencies		400 00	
454	Fire Hydrant Rentals and Water Purchased		260,000 00	
				310,749 80

DISTRIBUTION—WATER REGISTRATION, PERMITS AND REVENUE COLLECTONS.

455	Salaries and Wages		18,050 00	
				450,674 80

WATER SUPPLY, BOROUGH OF RICHMOND.
Administration.

456	Salaries, Office of the Deputy Commissioner	$7,600 00		
457	Salaries, Office of Chief Engineer	8,200 00		
			$15,800 00	
458	General Supplies		950 00	
459	Purchase of Furniture and Fittings		500 00	
460	Maintenance of Automobiles, including Equipment, Care and Storage		1,000 00	
461	Contingencies		800 00	
462	Telephone Service		1,500 00	
				$20,550 00

COLLECTION AND STORAGE—PUMPING STATIONS.

463	Salaries and Wages		$125,927 87	
464	General Supplies		2,400 00	
465	Material for Repairs and Replacements by Departmental Labor		17,000 00	
466	Repairs and Replacements by Contract or Open Order		5,000 00	
467	Hired Teams, Horses and Carts		2,055 00	
468	Fuel		46,000 00	
469	Contingencies		600 00	
				198,927 87

DISTRIBUTION—MAINTENANCE.

470	Salaries		$18,850 00	
471	Wages		56,451 00	
472	General Supplies		1,200 00	
473	Materials for Repairs and Replacements by Departmental Labor		15,500 00	
474	Repairs and Replacements by Contract or Open Order		4,000 00	
475	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,500 00	
476	Maintenance of Automobiles, including Equipment, Care and Storage		1,000 00	
477	Purchase of Horses		500 00	
478	Forage, Shoeing and Boarding Horses		3,120 00	
479	Hired Teams, Horses and Carts		500 00	
480	Fuel		500 00	
481	Contingencies		2,000 00	
482	Fire Hydrant Rentals and Water Purchased		10,000 00	
				115,121 00

DISTRIBUTION—WATER REGISTRATION, PERMITS AND REVENUE COLLECTIONS.

483	Salaries and Wages		38,147 50	
				372,746 37

WATER SUPPLY—HIGH PRESSURE FIRE SERVICE STATIONS.
Administration—Office of Supervising Electrical Engineer.

484	Salaries and Wages		$5,900 00	
485	Contingencies		100 00	
				$6,000 00

Borough of Manhattan.

486	Salaries and Wages		$31,316 00	
487	General Supplies		1,750 00	
488	Materials for Repairs and Replacements by Departmental Labor		1,500 00	
489	Repairs and Replacements by Contract or Open Order		2,000 00	
490	Fuel		500 00	
491	Telephone Service		8,000 00	
				45,066 00

Borough of Brooklyn.

492	Salaries and Wages		$47,011 00	
493	General Supplies		2,000 00	
494	Materials for Repairs and Replacements by Departmental Labor		2,250 00	
495	Repairs and Replacements by Contract or Open Order		3,000 00	
496	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		200 00	
497	Fuel		500 00	
498	Telephone Service		5,000 00	
				59,961 00
				111,027 00

HEAT, LIGHT AND POWER, BUREAUS OF LAMPS AND LIGHTING AND ELECTRICAL INSPECTION.
General Administration.

499	Salaries and Wages		$44,650 00	

HEAT, LIGHT AND POWER, BUREAU OF LAMPS AND LIGHTING.

Office of Chief Gas Examiner—

500	Salaries		17,400 00	
501	Laboratory for Testing Electric Meters		1,500 00	

Boroughs of Manhattan and The Bronx.

502	Salaries and Wages		$52,900 00	
503	Salaries and Wages, Lighting Public Buildings		20,110 00	
504	General Supplies		1,200 00	
505	Repairs and Replacements by Contract or Open Order		19,000 00	
506	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,500 00	
507	Purchase of Furniture and Fittings		500 00	
508	Maintenance of Automobiles, including Equipment, Care and Storage		1,300 00	
509	Hired Teams, Horses and Carts		3,500 00	
510	Telephone Service		275 00	
511	Contingencies		6,000 00	
512	Rental of Gas Regulators, Inspections, etc.		9,000 00	
513	Street and Park Lighting		1,363,680 40	
514	Lighting Public Buildings		600,000 00	
515	Heat and Power for City Departments, etc.		40,000 00	
516	High Pressure Fire Service, Reservation of Machinery and Current		90,000 00	
				2,208,965 40

Borough of Brooklyn.

517	Salaries and Wages		$24,900 00	
518	Salaries and Wages, Lighting Public Buildings		7,200 00	
519	General Supplies		75 00	
520	Repairs and Replacements by Contract or Open Order		10,000 00	
521	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		200 00	
522	Purchase of Furniture and Fittings		100 00	
523	Forage, Shoeing and Boarding Horses		750 00	
524	Telephone Service		200 00	
525	Contingencies		725 00	
526	Rental of Gas Regulators, Inspections, etc.		2,000 00	
527	Street and Park Lighting		1,057,688 54	
528	Lighting Public Buildings		190,000 00	
529	Heat and Power for City Departments		25,000 00	
530	High Pressure Fire Service, Reservation of Machinery and Current		45,000 00	
				1,363,838 54

Borough of Queens.

531	Salaries and Wages		$15,000 00	
532	General Supplies		250 00	
533	Repairs and Replacements by Contract or Open Order		6,000 00	
534	Purchase of Furniture and Fittings		750 00	
535	Hire of Automobiles		1,500 00	
536	Hired Teams, Horses and Carts		2,500 00	
537	Telephone Service		250 00	
538	Contingencies		400 00	
539	Rental of Gas Regulators, Inspections, etc.		400 00	
540	Street and Park Lighting		420,643 73	

541	Lighting Public Buildings	34,600 00	
542	Heat and Power for City Departments	3,000 00	
			485,293 73
	Borough of Richmond.		
543	Salaries and Wages	$14,250 00	
544	General Supplies	100 00	
545	Repairs and Replacements by Contract or Open Order	500 00	
546	Purchase of Furniture and Fittings	400 00	
547	Maintenance of Automobiles, including Equipment, Care and Storage	200 00	
548	Hire of Automobiles	1,000 00	
549	Hired Teams, Horses and Carts	500 00	
550	Telephone Service	100 00	
551	Contingencies	500 00	
552	Rental of Gas Regulators, Inspections, etc.	100 00	
553	Street and Park Lighting	192,573 10	
554	Lighting Public Buildings	22,300 00	
555	Heat and Power for City Departments	1,550 00	
			234,073 10
			4,355,720 77

HEAT, LIGHT AND POWER, BUREAU OF ELECTRICAL INSPECTION.

Boroughs of Manhattan and The Bronx.

556	Salaries and Wages	$48,102 50	
557	General Supplies	300 00	
558	Purchase of Furniture and Fittings	500 00	
559	Hired Teams, Horses and Carts	4,000 00	
560	Telephone Service	75 00	
561	Contingencies	900 00	
			$53,877 50
	Borough of Brooklyn.		
562	Salaries and Wages	$23,712 00	
563	General Supplies	100 00	
564	Purchase of Furniture and Fittings	200 00	
565	Hired Teams, Horses and Carts	1,000 00	
566	Telephone Service	150 00	
567	Contingencies	850 00	
			26,012 00
	Borough of Queens.		
568	Salaries and Wages	$18,802 00	
569	General Supplies	100 00	
570	Purchase of Furniture and Fittings	500 00	
571	Hired Teams, Horses and Carts	2,800 00	
572	Telephone Service	75 00	
573	Contingencies	1,200 00	
			23,477 00
			103,366 50
			6,943,638 52

DEPARTMENT OF PUBLIC CHARITIES.

GENERAL ADMINISTRATION.

	Office of the Commissioner—		
574	Salaries and Wages	$95,553 00	
	Office of the Auditor—		
575	Salaries and Wages	14,550 00	
	General Drug Department—		
576	Salaries and Wages	11,870 00	
			$121,973 00

ADMINISTRATION, MANHATTAN AND THE BRONX.

	Bureau of Dependent Adults—		
577	Salaries and Wages	$50,630 00	
	Children's Bureau—		
578	Salaries and Wages	30,920 00	
	Departmental Steamboats, Launches and Piers—		
579	Salaries and Wages	74,951 66	
	Storehouse, Bakery and Stables—		
580	Salaries and Wages	21,884 00	
	Bureau of Disinfectants—		
581	Salaries and Wages	$1,530 00	
582	General Supplies	5,000 00	
583	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	250 00	
		6,780 00	
			185,165 66

INSTITUTIONS, MANHATTAN AND THE BRONX.

	City Hospital—		
584	Salaries and Wages	$68,363 50	
	New York City Training School for Nurses—		
585	Salaries and Wages	36,010 00	
	New York City Home for Aged and Infirm—		
586	Salaries and Wages	55,257 50	
	Metropolitan Hospital—		
587	Salaries and Wages	60,122 00	
	Metropolitan Hospital Training School—		
588	Salaries and Wages	65,086 00	
	New York City Children's Hospital and Schools—		
589	Salaries and Wages	119,531 50	
	Municipal Lodging House—		
590	Salaries and Wages	17,822 50	
			422,193 00
591	General Supplies	$800,000 00	
592	Materials for Repairs and Replacements by Departmental Labor	30,000 00	
593	Repairs and Replacements by Contract or Open Order	80,000 00	
594	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	12,000 00	
595	Maintenance of Automobiles, including Equipment, Care and Storage	2,000 00	
596	Purchase of Horses	1,200 00	
597	Forage, Shoeing and Boarding Horses	9,800 00	
598	Fuel	150,000 00	
599	Telephone Service	6,000 00	
600	Contingencies	6,000 00	
			1,097,000 00
601	Open Air Concerts		1,000 00

ADMINISTRATION, BROOKLYN AND QUEENS.

	Office of the Deputy Commissioner—		
602	Salaries and Wages	$15,770 00	
	Bureau of Dependent Adults—		
603	Salaries and Wages	20,050 00	
	Children's Bureau—		
604	Salaries and Wages	15,900 00	
			51,720 00

INSTITUTIONS, BROOKLYN AND QUEENS.

	Kings County Hospital—		
605	Salaries and Wages	$113,554 50	
	Home for Aged and Infirm—		
606	Salaries and Wages	35,644 50	
	Cumberland Street Hospital—		
607	Salaries and Wages	28,744 50	
	Bradford Street Hospital—		
608	Salaries and Wages	2,900 00	
	Reception Hospital, Coney Island—		
609	Salaries and Wages	34,754 50	
			215,598 00
610	General Supplies	$275,000 00	
611	Materials for Repairs and Replacements by Departmental Labor	9,000 00	
612	Repairs and Replacements by Contract or Open Order	30,000 00	
613	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	6,000 00	
614	Maintenance of Automobiles, including Equipment, Care and Storage	2,100 00	
615	Purchase of Horses	600 00	
616	Forage, Shoeing and Boarding Horses	5,400 00	
617	Fuel	57,000 00	
618	Telephone Service	5,650 00	
619	Contingencies	2,000 00	
			392,750 00
620	Open Air Concerts		500 00
621	Burial of Pauper Dead		1,500 00

ADMINISTRATION, RICHMOND.

	Bureau of Dependent Adults—		
622	Salaries and Wages		4,650 00
	New York City Farm Colony—		
623	Salaries and Wages		15,412 50
624	General Supplies	$38,800 00	
625	Materials for Repairs and Replacements by Departmental Labor	2,000 00	
626	Repairs and Replacement by Contract or Open Order	7,500 00	
627	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,000 00	
628	Purchase of Horses	600 00	
629	Forage, Shoeing and Boarding Horses	1,800 00	
630	Fuel	8,000 00	
631	Telephone Service	350 00	
632	Contingencies	100 00	
			60,150 00
	Miscellaneous—		
633	Transportation of Paupers		5,000 00
634	Allowance for Poor Adult Blind		55,000 00
635	Clothing for Insane Patients		3,500 00
636	Clothing for Epileptics Sent to Craig Colony		7,500 00
637	Donations to Grand Army Veterans		25,000 00
638	State Hospital for Incipient Tuberculosis		17,000 00
			2,682,612 16

POLICE DEPARTMENT.

GENERAL ADMINISTRATION.

	Office of the Commissioner and Deputy Commissioners—		
639	Salaries and Wages	$47,662 50	
	Office of Chief Clerk and Bookkeeper—		
640	Salaries and Wages	83,150 00	
			$130,812 50

ADMINISTRATION.

	Telegraph Bureau—		
641	Salaries and Wages	$9,400 00	
	Steamer "Patrol"—		
642	Salaries and Wages	11,340 00	
	Mechanics and Laborers—		
643	Salaries and Wages	89,201 17	
	Department Stables—		
644	Salaries and Wages	66,607 00	
645	General Supplies	84,250 00	
646	Materials for Repairs and Replacements by Departmental Labor	12,000 00	
647	Repairs and Replacements by Contract or Open Order	55,300 00	
648	Apparatus—Machinery, Vehicles, Harness, etc., including care and Storage	26,480 00	
649	Forage, Shoeing and Boarding Horses	205,000 00	
650	Purchase of Furniture and Fittings	13,500 00	
651	Maintenance of Automobiles, including Equipment, Care and Storage	9,000 00	
652	Purchase of Horses	24,375 00	
653	Fuel	58,600 00	
654	Telephone Service	60,000 00	
655	Contingencies	52,000 00	
656	Police Pension Fund	600,000 00	
			1,377,053 17

POLICE FUND, UNIFORMED FORCE, SURGEONS, ETC.

657	Salaries and Wages	13,602,931 94	
			15,110,797 61

BOARD OF ELECTIONS.

GENERAL ADMINISTRATION.

658	Salaries	$102,900 00	
659	For Employment of Temporary Clerks	22,500 00	
660	General Supplies	503,700 00	
661	Repairs and Replacements by Contract or Open Order	7,500 00	
662	Purchase of Furniture and Fittings	1,000 00	
663	Telephone Service	1,400 00	
664	Contingencies	8,000 00	
665	Special Contract Obligations	409,750 00	
			1,056,750 00

BOARD OF CITY RECORD.

CITY OF NEW YORK.

Administration.

666	Salaries	$29,950 00	
667	General Supplies	500 00	
668	Telephone Service	500 00	
669	Contingencies	1,500 00	
670	Delivering Supplies to Departments	4,000 00	
			$36,450 00
671	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	550,000 00	
672	Stationery, including Letter or Writing Paper or Envelopes, with Printed Headings or Endorsements	105,000 00	
673	Blank Books	155,000 00	
674	Publication of the CITY RECORD	350,000 00	
	Arrearages for City Departments, Bureaus and Courts.		
675	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets, Printed Blanks and Blank Books	150,000 00	
676	Stationery, including Letter or Writing Paper or Envelopes, with Printed Headings or Endorsements	5,000 00	
			1,351,450 00

DEPARTMENT OF STREET CLEANING.

GENERAL ADMINISTRATION.

	Salaries and Wages—		
677	Office of the Commissioner	$30,876 00	
678	Office of the Chief Clerk and Bookkeeper	77,830 00	
679	Office of the Medical Examiners	5,400 00	
680	Office of the Veterinarians	10,960 00	
681	Office of the Master Mechanic	7,800 00	
682	Office of the Superintendent of Final Disposition	11,354 00	
683	General Supplies	1,500 00	
684	Telephone Service	3,300 00	
685	Contingencies	1,285 00	
686	Material for Repairs and Replacements by Departmental Labor	500 00	
687	Repairs and Replacements by Contract or Open Order	500 00	
688	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	500 00	
689	Purchase of Furniture and Fittings	200 00	
690	Maintenance of Automobiles, including Equipment, Care and Storage	2,700 00	
691	Purchase of Horses	500 00	
692	Forage, Shoeing and Boarding Horses	2,975 68	
			$158,180 68

ADMINISTRATION, BOROUGH OF MANHATTAN.

	Salaries and Wages—		
693	Office of the Deputy Commissioner	$17,664 00	
694	Division of Mechanical Work	160,465 00	
695	Division of Sweeping	1,751,472 00	
696	Division of Carting and Stable	926,647 20	
697	Division of Final Disposition	122,769 02	
698	General Supplies	36,995 00	
699	Material for Repairs and Replacements by Departmental Labor	75,500 00	
700	Repairs and Replacements by Contract or Open Order	41,405 00	
701	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	62,925 00	
702	Special Contract Obligations	599,875 00	
703	Fuel	8,000 00	
704	Hired Teams, Horses and Carts	5,000 00	
705	Telephone Service	5,800 00	
706	Contingencies	1,100 00	
707	Purchase of Furniture and Fittings	500 00	
708	Maintenance of Automobiles, including Equipment, Care and Storage	1,700 00	
709	Purchase of Horses	49,500 00	
710	Forage, Shoeing and Boarding Horses	292,024 32	
711	Removal of Snow and Ice	5,000 00	
			4,164,341 54

ADMINISTRATION, BOROUGH OF BROOKLYN.

	Salaries and Wages—		
712	Office of the Deputy Commissioner	$33,094 00	
713	Division of Mechanical Work	77,389 00	
714	Division of Sweeping	924,130 00	
715	Division of Carting and Stable	678,744 40	
716	Division of Final Disposition	46,850 00	
717	General Supplies	15,600 00	
718	Material for Repairs and Replacements by Departmental Labor	35,800 00	
719	Repairs and Replacements by Contract or Open Order	17,576 00	
720	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	28,550 00	
721	Special Contract Obligations	469,444 00	
722	Fuel	3,500 00	
723	Hired Teams, Horses and Carts	5,000 00	
724	Telephone Service	4,500 00	
725	Contingencies	800 00	
726	Purchase of Furniture and Fittings	300 00	
727	Maintenance of Automobiles, including Equipment, Care and Storage	950 00	
728	Purchase of Horses	32,500 00	
729	Forage, Shoeing and Boarding Horses	232,010 00	
730	Removal of Snow and Ice	5,000 00	
			2,611,737 40

ADMINISTRATION, BOROUGH OF THE BRONX.

	Salaries and Wages—		
731	Office of the Deputy Commissioner	$11,032 00	
732	Division of Mechanical Work	17,841 00	
733	Division of Sweeping	233,152 00	
734	Division of Carting and Stable	135,830 80	
735	Division of Final Disposition	15,037 50	
736	General Supplies	5,729 00	
737	Material for Repairs and Replacements by Departmental Labor	11,800 00	
738	Repairs and Replacements by Contract or Open Order	2,057 00	
739	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	11,110 00	
740	Special Contract Obligations	63,733 33	
741	Hired Teams, Horses and Carts	20,000 00	
742	Fuel	650 00	
743	Telephone Service	500 00	
744	Contingencies	300 00	
745	Purchase of Furniture and Fittings	100 00	
746	Maintenance of Automobiles, including Equipment, Care and Storage	1,200 00	
747	Purchase of Horses	16,250 00	
748	Forage, Shoeing and Boarding Horses	48,780 00	
749	Removal of Snow and Ice	2,000 00	
			597,102 63
			7,531,362 25

FIRE DEPARTMENT.

GENERAL ADMINISTRATION, MANHATTAN, THE BRONX AND RICHMOND.

	Salaries and Wages—		
750	Office of the Commissioner	$72,550 00	
751	Bureau of Combustibles	34,100 00	
752	Bureau of Fire Marshal	24,200 00	
753	Repair Shops	144,059 00	
754	Hospital and Training Stables	21,940 00	
755	Office of Superintendent of Buildings	41,266 50	
			$338,115 50

ADMINISTRATION, BOROUGH OF MANHATTAN.

	Salaries and Wages—		
756	Bureau of Chief of Department	$129,000 00	
757	Engine and Hook and Ladder Companies	2,842,203 50	
758	Fire Alarm Telegraph	81,580 00	
759	General Supplies	20,000 00	
760	Materials for Repairs and Replacements by Departmental Labor	51,000 00	
761	Repairs and Replacements by Contract or Open Order	40,000 00	
762	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	17,750 00	
763	Purchase of Furniture and Fittings	9,000 00	
764	Maintenance of Automobiles, including Equipment, Care and Storage	3,175 00	
765	Purchase of Horses	25,920 00	
766	Forage, Shoeing and Boarding Horses	101,000 00	
767	Hired Teams, Horses and Carts	500 00	
768	Fuel	81,000 00	
769	Telephone Service	10,000 00	
770	Contingencies	6,000 00	
			3,418,128 50

ADMINISTRATION, BOROUGH OF THE BRONX.

	Salaries and Wages—		
771	Bureau of Chief of Department	$24,000 00	
772	Engine and Hook and Ladder Companies	746,540 00	
773	Fire Alarm Telegraph	15,500 00	
774	General Supplies	4,500 00	
775	Materials for Repairs and Replacements by Departmental Labor	20,000 00	
776	Repairs and Replacements by Contract or Open Order	11,655 00	
777	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	6,500 00	
778	Purchase of Furniture and Fittings	2,900 00	
779	Maintenance of Automobiles, including Equipment, Care and Storage	1,400 00	
780	Purchase of Horses	5,184 00	
781	Forage, Shoeing and Boarding Horses	27,000 00	
782	Hired Teams, Horses and Carts	100 00	
783	Fuel	14,680 00	
784	Telephone Service	2,300 00	
785	Contingencies	75 00	
			882,334 00

ADMINISTRATION, BOROUGH OF RICHMOND.

	Salaries and Wages—		
786	Bureau of Chief of Department	$14,100 00	
787	Engine and Hook and Ladder Companies	289,075 00	
788	Fire Alarm Telegraph	12,600 00	
789	General Supplies	2,000 00	
790	Materials for Repairs and Replacements by Departmental Labor	9,500 00	
791	Repairs and Replacements by Contract or Open Order	8,000 00	
792	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	2,800 00	
793	Purchase of Furniture and Fittings	1,350 00	

794	Purchase of Automobiles	1,000 00	
795	Maintenance of Automobiles, including Equipment, Care and Storage	785 00	
796	Purchase of Horses	1,620 00	
797	Forage, Shoeing and Boarding Horses	9,500 00	
798	Hired Teams, Horses and Carts	100 00	
799	Fuel	7,750 00	
800	Telephone Service	1,550 00	
801	Contingencies	135 00	
802	Allowance to Volunteer Companies, Borough of Richmond (Section 722, Greater New York Charter)	13,800 00	
			375,665 00

GENERAL ADMINISTRATION, BROOKLYN AND QUEENS.

Salaries and Wages—

803	Office of Deputy Commissioner	$36,796 00	
804	Bureau of Combustibles	17,700 00	
805	Bureau of Fire Marshal	15,100 00	
806	Repair Shops	55,994 40	
807	Hospital and Training Stables	7,387 50	
808	Fire Alarm Telegraph	38,312 50	
			171,290 40

ADMINISTRATION, BOROUGH OF BROOKLYN.

Salaries and Wages—

809	Bureau of Chief of Department	$103,650 00	
810	Engine and Hook and Ladder Companies	1,898,470 00	
811	General Supplies	13,584 00	
812	Materials for Repairs and Replacements by Departmental Labor	26,635 00	
813	Repairs and Replacements by Contract or Open Order	26,350 00	
814	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	10,000 00	
815	Purchase of Furniture and Fittings	7,500 00	
816	Maintenance of Automobiles, including Equipment, Care and Storage	2,500 00	
817	Purchase of Horses	18,000 00	
818	Forage, Shoeing and Boarding Horses	89,000 00	
819	Fuel	44,000 00	
820	Telephone Service	8,200 00	
821	Contingencies	1,750 00	
822	Special Contract Obligations	7,900 00	
			2,267,539 00

ADMINISTRATION, BOROUGH OF QUEENS.

Salaries and Wages—

823	Bureau of Chief of Department	$28,300 00	
824	Engine and Hook and Ladder Companies	546,220 00	
825	General Supplies	4,500 00	
826	Materials for Repairs and Replacements by Departmental Labor	7,500 00	
827	Repairs and Replacements by Contract or Open Order	10,000 00	
828	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	3,500 00	
829	Purchase of Furniture and Fittings	3,600 00	
830	Purchase of Horses	9,000 00	
831	Forage, Shoeing and Boarding Horses	20,000 00	
832	Fuel	8,500 00	
833	Telephone Service	2,000 00	
834	Contingencies	250 00	
			$643,370 00

Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies—

835	General Supplies	$250 00	
836	Materials for Repairs and Replacements by Departmental Labor	710 00	
837	Purchase of Horses	3,000 00	
838	Forage, Shoeing and Boarding Horses	10,000 00	
839	Hired Teams, Horses and Carts	900 00	
840	Fuel	440 00	
841	Contingencies	200 00	
			15,500 00
842	Maintenance of Volunteer System (Section 722, Greater New York Charter)		41,600 00
			700,470 00
			8,153,542 40

DEPARTMENT OF PARKS.

PARK BOARD, GENERAL ADMINISTRATION.

843	Salaries		$27,900 00

MANHATTAN AND RICHMOND.

Administration.

Salaries and Wages—

844	Commissioner's Office	$31,240 00	
845	Office of Superintendent of Parks	12,500 00	
846	Engineer's Office	14,080 00	
847	Office of Superintendent of Supplies and Repairs	7,200 00	
848	General Supplies	1,200 00	
849	Contingencies	1,000 00	
850	Telephone Service	2,000 00	
			$69,220 00

General Maintenance.

851	Salaries and Wages, Mechanical Force		117,772 70

Maintenance of Parks and Boulevards.

852	Salaries and Wages	$443,308 75	
853	Hired Teams, Horses and Carts	15,000 00	
854	General Supplies	28,000 00	
855	Forage, Shoeing and Boarding Horses	30,500 00	
856	Materials for Repairs and Replacements by Departmental Labor	75,000 00	
857	Repairs and Replacements by Contract or Open Order	52,800 00	
858	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	13,750 00	
859	Purchase of Furniture and Fittings	750 00	
860	Purchase of Horses	5,000 00	
861	Fuel	17,500 00	
862	Contingencies	5,250 00	
			686,858 75

Maintenance—

Salaries and Wages:

863	Playgrounds, etc	$25,825 00	
864	Bath Houses and Comfort Stations	70,510 00	
			96,335 00

Maintenance of Trees in City Streets—

865	Salaries and Wages		25,000 00

Maintenance of Zoological Department—

866	Salaries and Wages		15,372 50
867	Music	$30,000 00	
868	Care of Grant's Tomb	7,000 00	
			37,000 00

Maintenance of Aquarium.

869	Salaries and Wages	$30,572 66	
870	Telephone Service	175 00	
871	General Supplies	5,877 26	
872	Materials for Repairs and Replacements by Departmental Labor	600 00	
873	Repairs and Replacements by Contract or Open Order	1,402 00	
874	Hired Teams, Horses and Carts	350 00	
875	Fuel and Light	5,000 00	
876	Contingencies	648 08	
877	Special Contract Obligations	1,375 00	
			46,000 00

Maintenance of Metropolitan Museum of Art.

878	Salaries and Wages	$161,097 75	
879	Telephone Service	600 00	
880	General Supplies	7,456 80	
881	Materials for Repairs and Replacements by Departmental Labor	6,685 45	
882	Purchase of Furniture and Fittings	1,850 00	
883	Fuel	10,400 00	
884	Contingencies	11,910 00	
			200,000 00

Maintenance of American Museum of Natural History.

885	Salaries and Wages	$160,000 00	
886	Telephone Service	780 00	
887	General Supplies	9,419 00	
888	Materials for Repairs and Replacements by Departmental Labor	3,500 00	
889	Repairs and Replacements by Contract or Open Order	500 00	
890	Maintenance of Automobiles, including Equipment, Care and Storage	450 00	
891	Purchase of Furniture and Fittings	1,150 00	
892	Fuel	8,500 00	
893	Contingencies	1,458 00	
			185,757 00

Maintenance of Children's School Farm (De Witt Clinton Park).

894	Salaries and Wages	$4,800 00	
895	Implements and Supplies	200 00	
			5,000 00

Maintenance of Jumel Mansion.

896	Salaries and Wages	$3,750 00	
897	General Supplies	50 00	
898	Materials for Repairs and Replacements by Departmental Labor	250 00	
899	Repairs and Replacements by Contract or Open Order	250 00	
900	Purchase of Furniture and Fittings	800 00	
901	Fuel	300 00	
902	Contingencies	250 00	
			5,650 00
			1,517,865 95

THE BRONX.

Administration.

Salaries and Wages—

903	Commissioner's Office	$14,400 00	
904	Superintendent's Office	12,900 00	
905	Engineer's Office	12,400 00	
906	General Supplies	365 00	
907	Contingencies	1,000 00	
908	Telephone Service	750 00	
			$41,815 00

General Maintenance, Mechanical Force.

909	Salaries and Wages		62,874 00

Maintenance of Parks and Boulevards.

910	Salaries and Wages	$219,361 00	
911	Hired Teams, Horses and Carts	36,414 50	
912	General Supplies	2,500 00	
913	Forage, Shoeing and Boarding Horses	3,332 00	
914	Materials for Repairs and Replacements by Departmental Labor	26,200 00	
915	Repairs and Replacements by Contract or Open Order	2,500 00	
916	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	8,468 00	

917	Fuel	3,500 00		
918	Maintenance of Automobiles, including Equipment, Care and Storage	500 00		
919	Purchase of Horses	1,000 00		
				303,775 50
920	Maintenance of Trees in City Streets—Salaries and Wages			16,561 50
921	Music			12,000 00
	Maintenance, New York Botanical Garden.			
922	Salaries and Wages	$64,860 00		
923	General Supplies	2,000 00		
924	Materials for Repairs and Replacements by Departmental Labor	1,000 00		
925	Repairs and Replacements by Contract or Open Order	500 00		
926	Fuel	12,000 00		
927	Contingencies	495 00		
928	Telephone Service	100 00		
929	Forage, Shoeing and Boarding Horses	1,114 64		
930	Apparatus — Machinery, Vehicles, Harness, etc., including Care and Storage	925 00		
				82,994 64
	Maintenance, New York Zoological Garden.			
931	Salaries and Wages	$111,000 00		
932	General Supplies	40,400 00		
933	Materials for Repairs and Replacements by Departmental Labor	5,800 00		
934	Apparatus — Machinery, Vehicles, Harness, etc., including Care and Storage	420 00		
935	Fuel	8,000 00		
936	Contingencies	1,242 00		
937	Telephone Service	770 00		
				167,632 00
				687,652 64
	Brooklyn and Queens.			
	Administration.			
	Salaries and Wages—			
938	Commissioner's Office	$14,700 00		
939	Superintendent's Office	13,200 00		
940	Engineer's Office	10,200 00		
941	Office of the Superintendent of Supplies and Repairs	4,050 00		
942	General Supplies	500 00		
943	Contingencies	1,000 00		
944	Telephone Service	1,500 00		
				$45,150 00
	General Maintenance, Mechanical Force.			
945	Salaries and Wages			93,986 93
	Maintenance, Parks and Boulevards.			
946	Salaries and Wages	$463,097 50		
947	Hired Teams and Carts, Road Machines	117,690 00		
948	General Supplies	51,200 00		
949	Materials for Repairs and Replacements by Departmental Labor	91,400 00		
950	Repairs and Replacements by Contract or Open Order	50,000 00		
951	Apparatus — Machinery, Vehicles, Harness, etc., including Care and Storage	14,500 00		
952	Fuel	14,190 75		
953	Contingencies	5,000 00		
954	Maintenance of Automobiles, including Equipment, Care and Storage	1,000 00		
955	Purchase of Furniture and Fittings	2,000 00		
956	Purchase of Horses	2,000 00		
957	Forage, Shoeing and Boarding Horses	8,453 50		
				820,531 75
	Maintenance of Trees in City Streets—			
958	Salaries and Wages			53,285 00
	Maintenance, Zoological Department—			
959	Salaries and Wages			10,037 50
960	Music			16,500 00
	Maintenance of Institutions.			
	Museum of Arts and Sciences (Including Taxidermical Laboratory).			
961	Salaries and Wages	$68,410 00		
962	General Supplies	3,600 00		
963	Materials for Repairs and Replacements by Departmental Labor	3,000 00		
964	Repairs and Replacements by Contract or Open Order	3,000 00		
965	Apparatus — Machinery, Vehicles, Harness, etc., including Care and Storage	300 00		
966	Fuel	6,500 00		
967	Contingencies	5,350 00		
968	Telephone Service	200 00		
969	Purchase of Furniture and Fittings	3,000 00		
970	Special Contract Obligations	400 00		
				93,760 00
	Children's Museum.			
971	Salaries and Wages	$9,550 00		
972	General Supplies	700 00		
973	Repairs and Replacements by Contract or Open Order	300 00		
974	Apparatus — Machinery, Vehicles, Harness, etc., including Care and Storage	150 00		
975	Fuel	325 00		
976	Contingencies	550 00		
977	Telephone Service	70 00		
978	Purchase of Furniture and Fittings	200 00		
979	Special Contract Obligations	300 00		
				12,145 00
				1,145,396 18
				3,350,914 77

DEPARTMENT OF EDUCATION.

SPECIAL SCHOOL FUND.

General Administration.

	Office of the Secretary—		
980	Salaries and Wages	$44,290 00	
	Office of the Auditor—		
981	Salaries and Wages	58,400 00	
			$102,690 00
	Administration.		
	Office of the City Superintendent of Schools—		
982	Salaries and Wages	$77,380 00	
	Offices of District Superintendents—		
983	Salaries and Wages	18,450 00	
	Office of the Superintendent of School Supplies—		
984	Salaries and Wages	129,030 00	
	Office of the Superintendent of School Buildings—		
985	Salaries and Wages	71,220 00	
	Office of the Supervisor of Janitors—		
986	Salaries and Wages	12,450 00	
	Office of the Supervisor of Lectures—		
987	Salaries and Wages	8,100 00	
			316,630 00
	Maintenance.		
	Bureau of Buildings, Division of Repairs—		
988	Salaries and Wages		190,286 41
	Manhattan Truant School—		
989	Salaries and Wages		5,240 00
	Brooklyn Truant School—		
990	Salaries and Wages		8,350 00
	New York Parental School—		
991	Salaries and Wages		15,010 00
	Nautical School—		
992	Salaries and Wages		32,570 00
	Evening Lecture Centres—		
993	Salaries and Wages		32,000 00
	General Supplies.		
994	Borough of Manhattan	$415,000 00	
995	Borough of The Bronx	87,000 00	
996	Borough of Brooklyn	373,000 00	
997	Borough of Queens	75,000 00	
998	Borough of Richmond	23,000 00	
999	Board of Education	74,310 00	
1000	Truant Schools	40,000 00	
1001	Nautical School	27,199 00	
1002	School Libraries and Libraries and Apparatus, Regent's Schools	38,706 00	
1003	Evening Lectures	28,700 00	
			1,181,915 00
	Repairs and Replacements by Contract or Open Order.		
	General Repairs.		
1004	Borough of Manhattan	$416,036 44	
1005	Borough of The Bronx	92,416 73	
1006	Borough of Brooklyn	346,753 33	
1007	Borough of Queens	122,586 47	
1008	Borough of Richmond	37,249 45	
1009	School Ship "Newport"	3,000 00	
1010	Evening Lecture Centres	3,000 00	
			1,021,042 42
	Furniture and Repairs of.		
1011	Borough of Manhattan	$103,056 00	
1012	Borough of The Bronx	40,697 00	
1013	Borough of Brooklyn	51,850 00	
1014	Borough of Queens	13,098 43	
1015	Borough of Richmond	2,224 27	
			210,925 70
	Pianos and Repairs of.		
1016	Borough of Manhattan	$1,500 00	
1017	Borough of The Bronx	600 00	
1018	Borough of Brooklyn	1,500 00	
1019	Borough of Queens	800 00	
1020	Borough of Richmond	500 00	
			4,900 00
	Fire Alarms.		
1021	Borough of Manhattan	$2,000 00	
1022	Borough of The Bronx	500 00	
1023	Borough of Brooklyn	1,800 00	
1024	Borough of Queens	655 00	
1025	Borough of Richmond	400 00	
			5,355 00
	Electrical Installation and Repairs.		
1026	Borough of Manhattan	$54,200 00	
1027	Borough of The Bronx	4,000 00	
1028	Borough of Brooklyn	40,000 00	
1029	Borough of Queens	2,000 00	
1030	Borough of Richmond	2,000 00	
			102,200 00
	Equipment of Science Rooms, Gymnasiums, Kitchens, Kindergartens and Workshops.		
1031	Borough of Manhattan	$12,780 00	
1032	Borough of The Bronx	4,070 00	
1033	Borough of Brooklyn	47,130 00	

1034	Borough of Queens	3,310 00	
1035	Borough of Richmond	1,800 00	
			69,090 00
	Equipment of Vocational School for Girls.		
1036	Borough of Manhattan		10,000 00
	Fitting Up Class Rooms for Tubercular Pupils.		
1037	Board of Education		6,500 00
	APPARATUS—MACHINERY, VEHICLES, HARNESS, ETC., INCLUDING CARE AND STORAGE.		
1038	Care of Horses, Board of Education	$4,231 00	
1039	Care of Horses, Truant Schools	2,250 00	
1040	Wireless Telegraph Set, School Ship "Newport"	1,600 00	
			8,081 00
	FUEL.		
1041	Borough of Manhattan	$197,314 25	
1042	Borough of The Bronx	48,650 75	
1043	Borough of Brooklyn	194,825 00	
1044	Borough of Queens	65,091 10	
1045	Borough of Richmond	20,999 00	
1046	School Ship "Newport"	4,500 00	
			531,380 10
1047	Hired Teams, Horses and Carts		27,000 00
1048	Telephone Service		10,793 00
	CONTINGENCIES.		
1049	Board of Education	$26,666 00	
1050	Truant Schools	2,756 00	
1051	Evening Lecture Courses	3,000 00	
1052	Music for Evening Roof Playgrounds	9,504 00	
1053	Nautical School	500 00	
			42,426 00
	SPECIAL CONTRACT OBLIGATIONS.		
1054	Compensation of Janitors		1,393,141 41
	Transportation of Pupils.		
1055	Borough of Manhattan	$7,063 80	
1056	Borough of The Bronx	16,226 92	
1057	Borough of Brooklyn	2,784 50	
1058	Borough of Queens	46,301 02	
1059	Borough of Richmond	9,016 75	
			81,392 99
1060	Heat for the Hall of the Board of Education		2,599 00
1061	Illustration of Lectures, Rental of Halls, etc., Evening Lecture Courses		20,000 00
1062	Maintenance of Truants in New York Catholic Protectory		10,000 00
	Water.		
1063	Borough of Brooklyn	$200 00	
1064	Borough of Queens	5,000 00	
1065	Borough of Richmond	1,700 00	
			6,900 00
			5,448,418 03
	GENERAL SCHOOL FUND.		
1066	For the General School Fund for the year 1910 the equivalent of three mills on every dollar of assessed valuation of the real and personal estate in The City of New York, liable to taxation, as certified to the Board of Education by the Department of Taxes and Assessments, including so much of the State school money apportioned by the Superintendent of Public Instruction to The City of New York, or any of the Counties contained therein, which State school money when received shall be paid into the General Fund for the Reduction of Taxation	$21,751,501 68	
	Additional amount allowed for the year 1910, in excess of the product of the three-mill tax	1,378,512 72	
			23,130,014 40
			28,578,432 43

In accordance with the provisions of section 1060 of the Greater New York Charter, the appropriation for the General School Fund for the year 1910 is made in bulk and for the City at large, but in making said allowance the Board of Estimate and Apportionment hereby recommends that it be apportioned among the various purposes of General School Fund Expenditure in the following manner and amounts:

RECOMMENDED APPORTIONMENT OF GENERAL SCHOOL FUND.

	Day Elementary Schools, including Model Teachers, Substitutes and Other Per Diem Teachers	$18,078,702 54	
	Day High Schools, including Substitutes	2,535,036 22	
	Training Schools for Teachers, excluding Model Teachers	130,000 00	
	Vocational Schools	57,400 00	
	Parental and Truant Schools	19,893 00	
	Evening High Schools	279,953 00	
	Evening Trade Schools	54,467 00	
	Evening Elementary Schools	411,786 00	
	Vacation Schools, Playgrounds, Recreation Centres and Baths	225,000 00	
	General Supervision	290,000 00	
	Special Branches in Day Elementary Schools	591,376 64	
	Attendance Officers	125,400 00	
	Corporate Schools	250,000 00	
	Lecturers' Fees	81,000 00	
			23,130,014 40

THE COLLEGE OF THE CITY OF NEW YORK.

1067	Salaries of the Teaching Force		$440,350 00
	Office of the President—		
1068	Salaries and Wages		9,770 00
	Office of the Curator—		
1069	Salaries and Wages		75,672 50
1070	General Supplies		31,931 33
1071	Materials for Repairs and Replacements by Departmental Labor		3,368 40
1072	Repairs and Replacements by Contract or Open Order		5,800 00
1073	Fuel		25,000 00
1074	Telephone Service		750 00
1075	Contingencies		2,882 50
1076	Special Contract Obligations—Compensation of Janitor		18,435 00
			613,959 73

NORMAL COLLEGE OF THE CITY OF NEW YORK.

1077	Salaries of the Teaching Force		$322,170 00
1078	Administration, Salaries and Wages		6,050 00
1079	General Supplies		22,950 00
1080	Repairs and Replacements by Contract or Open Order		3,500 00
1081	Fuel		3,000 00
1082	Telephone Service		600 00
1083	Contingencies		2,500 00
1084	Special Contract Obligations—Compensation of Janitor		5,500 00
			366,270 00

BROOKLYN DISCIPLINARY TRAINING SCHOOL FOR BOYS.

1085	Salaries and Wages		$26,285 00
1086	General Supplies		28,011 00
1087	Materials for Repairs and Replacements by Departmental Labor		1,800 00
1088	Forage, Shoeing and Boarding Horses		450 00
1089	Telephone Service		450 00
1090	Contingencies		2,294 00
			59,290 00

COMMISSIONERS OF ACCOUNTS.

GENERAL ADMINISTRATION.

	Salaries and Wages—		
1091	Commissioners		$10,000 00
1092	Chief Accountant, Chief Clerk, Stenographers		9,900 00
1093	Accounting Staff		146,060 00
1094	Inspection Staff, Engineering and Special		30,850 00
1095	General Supplies		1,579 00
1096	Telephone Service		900 00
1097	Contingencies, including Special Examinations		20,100 00
			219,389 00

COMMISSIONER OF LICENSES.

1098	Salaries		$48,900 00
1099	General Supplies		400 00
1100	Telephone Service		400 00
1101	Contingencies		4,130 00
			53,830 00

BOARD OF CORONERS, MANHATTAN.

1102	Salaries		$59,800 00
1103	General Supplies		251 00
1104	Contingencies		2,378 00
1105	Telephone Service		2,000 00
			64,429 00

BOARD OF CORONERS, THE BRONX.

1106	Salaries		$26,200 00
1107	Contingencies		2,360 00
1108	Telephone Service		800 00
			29,360 00

BOARD OF CORONERS, BROOKLYN.

1109	Salaries		$29,850 00
1110	Contingencies		2,182 00
1111	Telephone Service		444 00
			32,476 00

BOARD OF CORONERS, QUEENS.

1112	Salaries		$20,400 00
1113	Contingencies		2,500 00
1114	Telephone Service		500 00
			23,400 00

BOARD OF CORONERS, RICHMOND.

1115	Salaries		$11,200 00
1116	General Supplies		250 00
1117	Contingencies		1,500 00
1118	Telephone Service		300 00
			13,250 00

MUNICIPAL CIVIL SERVICE COMMISSION.

ADMINISTRATION.

1119	Salaries and Wages		$145,560 00
1120	General Supplies		614 00
1121	Telephone Service		1,050 00
1122	Contingencies		6,812 00
			154,036 00

BOARD OF ASSESSORS.

1123	Salaries		$42,500 00
1124	General Supplies		1,100 00
1125	Telephone Service		400 00
1126	Contingencies		500 00
			44,500 00

EXAMINING BOARD OF PLUMBERS.

1127	Salaries		$5,745 00
1128	General Supplies		379 00
			6,124 00

DEPARTMENT OF TAXES AND ASSESSMENTS.

1129	Salaries and Wages		$478,640 00
1130	General Supplies		3,630 00
1131	Telephone Service		750 00
1132	Contingencies		10,620 00
			493,640 00

BOARD OF ESTIMATE AND APPORTIONMENT.

GENERAL ADMINISTRATION.

1133	Salaries	$37,150 00	
	Public Improvements and Franchises, Office of Chief Engineer—		
1134	Salaries	17,250 00	
	Division of Public Improvements—		
1135	Salaries	25,470 00	
	Division of Franchises—		
1136	Salaries	31,950 00	
1137	Fees of Consulting Architects and Engineers	10,000 00	
1138	Contingencies	12,000 00	
			133,820 00

PERMANENT CENSUS BOARD.

1139	Salaries and Wages	$26,050 00	
1140	General Supplies	7,500 00	
1141	Contingencies	1,000 00	
			34,550 00

THE ARMORY BOARD.

GENERAL ADMINISTRATION.

1142	Salaries	$12,750 00	
1143	Contingencies	500 00	
			$13,250 00

MAINTENANCE OF ARMORIES.

Boroughs of Manhattan and The Bronx.

1144	Repairs and Supplies	$56,250 00	
1145	Contingencies	2,500 00	
			$58,750 00

Boroughs of Brooklyn and Queens.

1146	Repairs and Supplies	$38,450 00	
1147	Contingencies	1,500 00	
		39,950 00	
			98,700 00
			111,950 00

FOR LIBRARY PURPOSES.

NEW YORK PUBLIC LIBRARY, ASTOR, LENOX AND TILDEN FOUNDATIONS.

1148	Salaries	$349,785 00	
1149	Books, Binding, etc	138,310 00	
1150	Supplies	48,380 00	
1151	Telephone Service	3,000 00	
1152	Furniture and Repairs of	5,000 00	
1153	Light, Heat, Water and Insurance	58,120 00	
1154	Rentals	180 00	
1155	Repairs to Buildings and Grounds	18,037 00	
			$620,812 00

BROOKLYN PUBLIC LIBRARY.

1156	Salaries	$229,678 00	
1157	Books, Binding, etc	93,975 00	
1158	Supplies	25,793 00	
1159	Telephone Service	2,798 00	
1160	Furniture and Repairs of	5,150 00	
1161	Light, Heat, Water and Insurance	39,490 00	
1162	Rentals	13,805 00	
1163	Repairs to Buildings and Grounds	14,050 00	
			424,739 00

THE QUEENSBORO PUBLIC LIBRARY.

1164	Salaries	$64,800 00	
1165	Books, Binding, etc	22,490 00	
1166	Supplies	7,300 00	
1167	Telephone Service	1,300 00	
1168	Furniture and Repairs of	1,480 00	
1169	Light, Heat, Water and Insurance	6,765 00	
1170	Rentals	8,250 00	
1171	Repairs to Buildings and Grounds	7,822 00	
			120,207 00
			$1,165,758 00

THE CITY COURT OF NEW YORK.

1172	Salaries	$232,000 00	
1173	Contingencies	1,700 00	
1174	Telephone Service	300 00	
			234,000 00

CITY MAGISTRATES' COURTS, FIRST DIVISION.

1175	Salaries	$229,400 00	
1176	General Supplies	2,000 00	
1177	Telephone Service	1,500 00	
1178	Contingencies	1,000 00	
			233,900 00

CITY MAGISTRATES' COURTS, SECOND DIVISION.

1179	Salaries	$237,500 00	
1180	General Supplies	400 00	
1181	Telephone Service	3,000 00	
1182	Contingencies	1,600 00	
			242,500 00

THE CITY OF NEW YORK.

FOR CHARITABLE INSTITUTIONS.

Conditions Governing Payments to Charitable Institutions.

The appropriations in this Budget are made subject to the following conditions:

1. The accounts and records of all charitable institutions receiving public moneys shall be so kept as to show all receipts, disbursements and population in such form as shall be satisfactory to the Comptroller. Records must show the addresses of parents, guardians or nearest relatives of inmates and other information designed to facilitate inquiry into their financial inability to make provision for dependents in the institution.

2. Moneys received from the City Treasury shall be used by such institutions for recurring expenses of "care, support, education and maintenance."

3. All institutions receiving public moneys and all their books of record and accounts shall at all reasonable times be open to the visitation, inspection and examination of duly authorized representatives of the Department of Finance and at all proper times the Department of Public Charities shall have access to the record of inmates.

4. Upon its appearing to the satisfaction of the Comptroller that it would be to the public interest to withhold payments to any charitable institution for which an apportionment has been made, he shall in his discretion suspend payments and give written notice to such institution of his intention to apply to the Board of Estimate and Apportionment for authority to cease making further payments, and upon the determination of such Board that such payments shall terminate, the right of any such institution to receive payment for services rendered thereafter shall thereupon end.

5. Where apportionments are made upon a per capita basis for inmates of private charitable institutions, there will be no payments unless the inmates shall have been accepted by the Commissioner of the Department of Public Charities as proper charges against the City; and except in emergency cases, the Commissioner of Charities shall not accept as proper charges persons capable of paying for their own support, or for whose care adequate provision can be made in public hospitals.

In determining the acceptance of patients in private hospitals as proper charges, the Commissioner of Charities shall first consider the nature of the services actually rendered to the patients by the hospitals. The records of the institutions and the bed-card notes showing the treatment given shall be received as the essential evidence in deciding acceptances or rejections. *The City shall not be liable for any payment to charitable institutions in excess of the apportionment which may have been made to such institutions, notwithstanding the acceptances of the Commissioner of Charities or any per capita rates of payment that may have been fixed for the inmates thereof.*

6. All institutions receiving money from the City are required to state specifically the amount so received, as from the City Treasury, in their printed annual reports.

7. No money shall be paid to any private charitable institution which pays any salary to or gives any consideration, financial or of any kind, for services to, or that has any business dealing with, or secures goods or merchandise, directly or indirectly, from any officer or trustee or member of its Board of Managers.

8. That charitable institutions for children now carried in the Budget and not sending their inmates to the Public Schools, and not sharing in the Corporate School Fund, and not receiving teachers and school supplies from the Board of Education, but giving in their own buildings secular education to the children resident in the institutions, shall be paid a per capita of 7 cents per day, five school days in the week, for each child receiving such instruction of four years of age and over during ten months in the year. This money to be paid under the authorization of section 230 of the Charter, but under the general conditions relating to institutions receiving Corporate School money, as provided in section 1154.

9. Magistrates are requested to transfer dependent, and when judicious, no proper guardianship children, and all cases coming to their attention in the courts where no crime is proven against the child, to the Commissioner of Charities, who can commit to institutions. Magistrates are earnestly requested not to commit a dependent child to an institution on a court commitment.

10. The Commissioner of Charities is instructed to take such steps, either by appeal to the national authorities or by proper bills to the Legislature, as to provide that the children of emigrants abandoned within one year after arrival in this City be returned to the country whence they came.

11. No dependent child under sixteen years of age shall be accepted as a proper charge upon the City and no money will be paid for the care, support, maintenance or education of such child unless it shall have been lawfully committed to a suitable private charitable institution having its own plant and equipment for the proper protection and care of children, under the supervision of the State Board of Charities, and has been placed in this Budget by the Board of Estimate and Apportionment.

This order has no relation to the class of children of such mental and physical condition as those cared for in the City Institution at Randalls Island.

12. The rates of payments to private charitable institutions, unless otherwise specially provided for, are fixed for the various classes of inmates as follows:

For infants under two (2) years of age, and in general hospitals under the age of five (5), per day	$0 45
For dependent children from two (2) to sixteen (16) years of age, per week	2 25
For delinquent children, per annum	135 00
For children in Cottage Villages, not to exceed 30 inmates in each cottage, additional per week	25
For adult inmates of Reformatories, committed by the Courts, per annum	135 00
For inmates in Home for Unfortunate and Friendless Females, per annum	110 00
*For homeless mothers nursing infants, per month	12 00
*For cases in maternity hospitals and emergency cases in general hospitals, per case	18 00
To hospitals for medical treatment, per day	1 00
To hospitals for surgical treatment, per day	1 10
To hospitals for consumptive patients, per day	80
To hospitals for cancer patients, per day	80
For chronic, incurable or infirm, per day	40
For blind babies, per day	60
For defective children in institutions maintained exclusively for such, per day	50
For disbursements in placing or indenturing children in permanent homes, per child	20 00
For annual supervision of children placed in homes, per annum	5 00
For annual supervision of children placed in homes in The City of New York, per annum	2 50
For vocational training in suitably equipped institutions, furnished with standard appointments, outfit, material and special instructors, per annum	50 00

For services of Custodian—First year, $900; second year, $1,050; thereafter, $1,200 per annum.

Payments are Made to the Following Named Institutions under Laws of 1901, Chapter 466, Section 230:

1183	Asylum of the Sisters of St. Dominic	$85,775 88
1184	Asylum of St. Vincent de Paul	9,649 50
1185	Association for Befriending Children and Young Girls (House of the Holy Family)	5,496 76

* Institutions shall be paid $18 for the care of the mother and child during fifteen days of her confinement, and for every day thereafter shall be paid at the rate of 45 cents per day for the support of the child, and also $12 per month for the maintenance of the mother, if she remain in the institution nursing infant after the expiration of fifteen days.

† Details obtained from the Department of Finance.

1186	American Female Guardian Society and Home for the Friendless—For the care and education of poor children in the Industrial Schools, and not in the Home School (in addition to the apportionment of Corporate School Fund), at a per capita of 70 cents per school month during ten months in the year	43,970 88
1187	Brooklyn Howard Colored Orphan Asylum	27,270 64
1188	Brooklyn Training School and Home for Young Girls	2,322 00
1189	Bushwick and East Brooklyn Dispensary Association	250 00
1190	Brooklyn Industrial School Association and Home for Destitute Children	31,003 08
1191	Beth Israel Hospital	35,481 36
1192	Brooklyn Nursery and Infants' Hospital	10,968 10
1193	Brooklyn Hospital	14,636 70
1194	Bushwick Hospital	4,525 48
1195	Brooklyn Central Dispensary	250 00
1196	Brooklyn Eastern District Homeopathic Dispensary	250 00
1197	Brooklyn Home for Consumptives	18,851 20
1198	Brooklyn Children's Aid Society	16,400 18
1199	For Seaside Home, payable in twelve monthly installments	3,500 00
1200	Brooklyn Society for the Prevention of Cruelty to Children, payable in twelve monthly installments	20,000 00
1201	Brooklyn Hebrew Orphan Asylum	60,581 30
1202	Brooklyn City Dispensary	250 00
1203	Brooklyn Eastern District Dispensary and Hospital	9,054 80
1204	Colored Orphan Asylum and Association for the Benefit of Colored Children in The City of New York	25,864 98
1205	Columbus Hospital	11,341 90
1206	Church Charity Foundation of Long Island (Home for the Blind)—For inmates accepted by the Department of Public Charities, at the rate of $110 per annum each	327 30
1207	Orphan House	6,910 06
1208	St. John's Hospital	8,223 40
1209	Children's Aid Society—For inmates accepted by the Department of Public Charities, to wit: For the care and education of poor children in the Industrial Schools (in addition to the apportionment of the Corporate School Fund), at a per capita of 70 cents per school month during ten months in the year; for the support and training of homeless boys and girls in the lodging houses and farm at a per capita of $50 per annum each	70,000 00
1210	Catholic Home Bureau	14,602 50
1211	Deutsche Poliklinik (Dispensary)	250 00
1212	Dominican Convent of Our Lady of the Rosary	122,288 50
1213	Flushing Hospital and Dispensary	13,006 44
1214	Five Points House of Industry	19,810 72
1215	Gates Avenue Homeopathic Dispensary	250 00
1216	German Hospital of Brooklyn	10,707 66
1217	German Odd Fellows' Home and Orphan Asylum	11,259 02
1218	German Hospital and Dispensary	29,351 68
1219	Good Counsel Training School for Young Girls	2,067 60
1220	Hebrew Infant Asylum of The City of New York	16,827 74
1221	Hebrew Sheltering Guardian Society	109,924 68
1222	Hebrew Orphan Asylum	155,906 14
1223	House of Calvary	5,865 60
1224	House of Mercy	7,773 98
1225	Hope Farm	15,930 48
1226	House of St. Giles the Cripple—For the care and maintenance of inmates accepted by the Department of Public Charities, at the rate of $150 per annum each	10,749 28
1227	House of the Good Shepherd	41,514 50
1228	Institution of Mercy	12,913 04
1229	Industrial School Association of Brooklyn, Eastern District	45,725 66
1230	International Sunshine Branch for the Blind	3,367 20
1231	Jamaica Hospital	8,219 18
1232	Lebanon Hospital Association	30,461 90
1233	Low Maternity (Branch of Brooklyn Hospital)	1,381 68
1234	Long Island College Hospital	26,035 60
1235	Lutheran Hospital Association (City of New York and Vicinity)	2,382 60
1236	Lincoln Hospital and Home	82,000 00
1237	Missionary Sisters, Third Order of St. Francis	107,966 24
1238	Mission of the Immaculate Virgin for the Protection of Homeless and Destitute Children	168,066 28
1239	Methodist Episcopal Hospital in the City of Brooklyn	10,958 44
1240	Maternity of the Long Island College Hospital	942 80
1241	Mary Immaculate Hospital	14,717 94
1242	Misericordia Hospital	24,615 36
1243	Manhattan Eye, Ear and Throat Hospital	8,089 20
1244	New York Catholic Protectory	294,929 70
1245	New York Juvenile Asylum	75,000 00
1246	New York Infant Asylum	126,748 34
1247	New York Foundling Hospital	369,441 38
1248	Nursery and Child's Hospital	5,725 28
1249	New York Eye and Ear Infirmary	12,018 70
1250	New York Post-Graduate Medical School and Hospital	16,908 06
1251	Northwestern Dispensary	250 00
1252	Northern Dispensary of The City of New York	250 00
1253	New York Polyclinic Medical School and Hospital	5,432 10
1254	New York Homeopathic Medical College and Hospital	25,220 00
1255	New York Infirmary for Women and Children	5,969 78
1256	New York Ophthalmic Hospital	6,200 82
1257	New Amsterdam Eye and Ear Hospital	250 00
1258	Norwegian Lutheran Deaconesses' Home and Hospital	9,478 10
1259	Northeastern Dispensary in The City of New York	250 00
1260	New York Magdalen Benevolent Society	4,788 24
1261	New York Society for the Prevention of Cruelty to Children, payable in twelve monthly installments	60,000 00
1262	New York Opththalmic and Aural Institute	250 00
1263	Orphan Home (Brooklyn)	86,526 08
1264	Orphan Asylum Society of the City of Brooklyn	18,435 20
1265	Otillie Orphan Asylum	4,685 02
1266	Peabody Home for Aged and Indigent Women—For the care and maintenance of inmates accepted by the Department of Public Charities at the rate of 40 cents per diem	4,544 80
1267	Prospect Heights Hospital and Brooklyn Maternity	303 40
1268	Roman Catholic Orphan Asylum Society—St. Joseph's Female Orphan Asylum and St. John's Home	190,259 36
1269	Richmond County Society for the Prevention of Cruelty to Children, payable in twelve monthly installments	1,000 00
1270	Roman Catholic House of the Good Shepherd	21,558 00
1271	St. Mark's Hospital, New York City	5,056 94
1272	St. Christopher's Hospital for Babies	4,482 30
1273	St. Mary's General Hospital of the City of Brooklyn	24,492 70
1274	St. Peter's Hospital	49,932 00
1275	St. Catherine's Hospital	33,457 62
1276	Society for the Aid of Friendless Women and Children	8,589 92
1277	St. John's Long Island City Hospital	42,447 16
1278	St. Zita's Home for Friendless Women	1,761 30
1279	St. John's Guild, payable in twelve monthly installments	22,500 00
1280	Sanitarium for Hebrew Children, payable in twelve monthly installments	7,500 00
1281	St. Vincent's Hospital of The City of New York	51,468 00
1282	St. Joseph's Hospital (Queens)	8,699 68
1283	St. Gregory Emergency Hospital	6,582 90
1284	Sydenham Hospital	9,640 40
1285	St. Joseph's Hospital (New York City)	102,245 60
1286	St. Francis' Hospital	65,426 00
1287	Sacred Heart Orphan Asylum	9,047 54
1288	St. Agatha Home for Children	69,428 32
1289	St. Michael's Home	25,817 72
1290	St. Joseph's Asylum	97,261 14
1291	St. Ann's Home for Destitute Children	43,678 02
1292	St. Malachy's Home	111,658 78
1293	Sheltering Arms Nursery of Brooklyn	5,526 24
1294	Sloane Maternity Hospital	14,402 88
1295	Seton Hospital, New York City	107,706 30
1296	St. Agnes' Hospital for Crippled and Atypical Children	23,865 48
1297	St. Vincent's Hospital (Borough of Richmond)	37,169 20
1298	Samaritan Hospital of Brooklyn	783 86
1299	The Hospital of the Holy Family	26,000 00
1300	The Convent of the Sisters of Mercy in Brooklyn	171,535 94
1301	The New York Society for the Relief of the Ruptured and Crippled—For the care and maintenance of inmates accepted by the Department of Public Charities at the rate of $200 each per annum	23,915 06
1302	The Ozanam Home for Friendless Women	6,980 28
1303	Temporary Home for Children of Queens County, N. Y.	2,321 36
1304	The Babies' Hospital of The City of New York	6,816 00
1305	The Harlem Eye, Ear and Throat Infirmary	250 00
1306	The Society of the Lying-in Hospital of The City of New York	24,489 20
1307	The Mount Sinai Hospital of The City of New York	73,869 56
1308	The J. Hood Wright Memorial Hospital	8,166 40
1309	The Jewish Hospital	26,882 64
1310	The Harlem Dispensary	250 00
1311	The Brooklyn Eye and Ear Hospital	7,477 90
1312	The S. R. Smith Infirmary	13,526 20
1313	The Jewish Protectory and Aid Society	50,100 00
1314	The Swedish Hospital in Brooklyn	3,973 34
1315	Williamsburg Hospital	11,390 16
1316	Washington Square Home for Friendless Girls	1,315 18
1317	West Side German Dispensary	250 00
1318	Wayside Home	2,058 66
1319	Washington Heights Hospital	3,845 30
1320	Yorkville Dispensary and Hospital for Women and Children	2,348 90
1321	Hospital for Deformities and Joint Diseases	4,034 68
1322	New York Medical College and Hospital for Women	500 00
1323	New York Red Cross Hospital	450 20
1324	Brooklyn Home for Blind, Crippled and Defective Children	15,144 80
1325	Rockaway Beach Hospital and Dispensary	3,000 00
1326	For Ambulances	36,125 00
1327	Jewish Maternity Hospital	15,000 00
1328	Har Moriah Hospital	3,000 00
1329	The Lakeview Home for Girls	2,000 00
1330	For Vocational Training	75,000 00
1331	Philanthropic Hospital	1,000 00
1332	The Italian Hospital and Dispensaries	5,100 00
1333	The Societe Francaise de Bienfaisance	10,000 00
		4,734,252 26

RENTS.

1334	Rents	1,059,655 00

MISCELLANEOUS—CITY.

1335	Advertising, not otherwise provided for, including Arrearages	$175,000 00
1336	Corporation Advertising, Borough of Brooklyn	100,000 00
1337	Commissioners of the Sinking Fund, Expenses of	17,000 00
1338	Salaries of General Interpreters, Borough of Brooklyn	12,900 00
1339	Board of Building Examiners, Expenses of	11,000 00
1340	United States Volunteer Life Saving Corps	11,000 00
1341	For Expenses of the Art Commission	7,600 00
1342	For Costs of Commitments of Insane Persons, pursuant to chapter 545, Laws of 1896	5,000 00
1343	Widows and Orphans' Fund of Volunteer Fire Departments, Towns of Flatbush, Gravesend, New Utrecht and Flatlands	5,000 00
1344	Widows and Orphans' Fund of Volunteer Fire Departments, Borough of Brooklyn (chapter 647, Laws of 1901)	5,000 00
1345	Municipal Explosives Commission, Expenses of	4,000 00
1346	Memorial Day Observances, Borough of Manhattan	3,000 00
1347	Memorial Day Observances, Borough of Brooklyn	3,000 00
1348	Board of Parole	4,600 00
1349	Memorial Committee of the United Spanish War Veterans (chapter 360, Laws of 1906)	2,500 00
1350	Kings County Volunteer Firemen's Association (chapter 658, Laws of 1895)	1,500 00

1351	Hudson-Fulton Celebration Commission, Expenses of		1,365 00	
1352	For the Seventeenth Installment on Account of Sea Breeze Avenue, in the Borough of Brooklyn		961 21	
1353	Allowance to Veteran Associations for Decoration Day Observances, Borough of Brooklyn, pursuant to chapter 13, Laws of 1897		900 00	
1354	Annual Compensation to John T. Mayers, a former employee of the Fire Department, for damages (chapter 372, Laws of 1903)		800 00	
1355	Memorial Day Observances, Borough of The Bronx		800 00	
1356	Memorial Committee of the Army and Navy Union (chapter 360, Laws of 1906)		700 00	
1357	Memorial Day Observances, Borough of Queens		300 00	
1358	Memorial Day Observances, Borough of Richmond		300 00	
1359	Staten Island Association of Arts and Sciences		4,000 00	
1360	Board of Revision of Assessments		6,000 00	
				384,226 21

MUNICIPAL COURTS, CITY OF NEW YORK.

Borough of Manhattan.

First District Court.

1361	Salaries	$79,500 00		
1362	Contingencies	800 00		
			$80,300 00	

Second District Court.

1363	Salaries	$106,000 00		
1364	Contingencies	600 00		
			106,600 00	

Third District Court.

1365	Salaries	$44,000 00		
1366	Contingencies	400 00		
			44,400 00	

Fourth District Court.

1367	Salaries	$41,000 00		
1368	Contingencies	300 00		
			41,300 00	

Fifth District Court.

1369	Salaries	$51,000 00		
1370	Contingencies	300 00		
			51,300 00	

Sixth District Court.

1371	Salaries	$41,000 00		
1372	Contingencies	300 00		
			41,300 00	

Seventh District Court.

1373	Salaries	$55,500 00		
1374	Contingencies	300 00		
			55,800 00	

Eighth District Court.

1375	Salaries	$38,000 00		
1376	Contingencies	300 00		
			38,300 00	

Ninth District Court.

1377	Salaries	$64,000 00		
1378	Contingencies	300 00		
			64,300 00	
				$523,600 00

Borough of The Bronx.

First District Court.

1379	Salaries	$20,500 00		
1380	Contingencies	300 00		
			$20,800 00	

Second District Court.

1381	Salaries	$22,000 00		
1382	Contingencies	300 00		
			22,300 00	
				43,100 00

Borough of Brooklyn.

First District Court.

1383	Salaries	$26,500 00		
1384	Contingencies	300 00		
			$26,800 00	

Second District Court.

1385	Salaries	$38,000 00		
1386	Contingencies	350 00		
			38,350 00	

Third District Court.

1387	Salaries	$42,500 00		
1388	Contingencies	300 00		
			42,800 00	

Fourth District Court.

1389	Salaries	$22,000 00		
1390	Contingencies	300 00		
			22,300 00	

Fifth District Court.

1391	Salaries	$22,000 00		
1392	Contingencies	300 00		
			22,300 00	

Sixth District Court.

1393	Salaries	$38,000 00		
1394	Contingencies	300 00		
			38,300 00	

Seventh District Court.

1395	Salaries	$42,500 00		
1396	Contingencies	300 00		
			42,800 00	
				233,650 00

Borough of Queens.

First District Court.

1397	Salaries	$16,000 00		
1398	Contingencies	300 00		
			$16,300 00	

Second District Court.

1399	Salaries	$17,200 00		
1400	Contingencies	300 00		
			17,500 00	

Third District Court.

1401	Salaries	$16,000 00		
1402	Contingencies	300 00		
			16,300 00	

Fourth District Court.

1403	Salaries	$16,000 00		
1404	Contingencies	300 00		
			16,300 00	
				66,400 00

Borough of Richmond.

First District Court.

1405	Salaries	$16,000 00		
1406	Contingencies	300 00		
			$16,300 00	

Second District Court.

1407	Salaries	$17,200 00		
1408	Contingencies	300 00		
			17,500 00	
				33,800 00

Miscellaneous.

1409	Compensation for Assignment of Justices from Boroughs of Queens and Richmond to the Boroughs of Manhattan and The Bronx		$500 00	
1410	Compensation for Assignment of Justices from the Boroughs of Queens and Richmond to the Borough of Brooklyn		500 00	
1411	Compensation of Clerk acting as Secretary to Board of Justices		1,000 00	
1412	Compensation of Attendant designated as Attendant to Board of Justices		300 00	
1413	Contingencies, Board of Justices		250 00	
				2,550 00
				903,100 00

COURT OF SPECIAL SESSIONS, FIRST DIVISION.

1414	Salaries	$90,550 00	
1415	Contingencies	3,500 00	
			94,050 00

CHILDREN'S COURT, FIRST DIVISION.

1416	Salaries	$15,100 00	
1417	Contingencies	1,000 00	
			16,100 00

COURT OF SPECIAL SESSIONS, SECOND DIVISION.

1418	Salaries	$68,000 00	
1419	Supplies	700 00	
1420	Contingencies	1,475 00	
1421	Telephone Service	325 00	
			70,500 00

CHILDREN'S COURT, SECOND DIVISION.

1422	Salaries	$11,800 00	
1423	Supplies	275 00	
1424	Telephone Service	225 00	
1425	Contingencies	500 00	
			12,800 00

PRESIDENT, BOROUGH OF MANHATTAN.

General Administration.

1426	Salaries	$78,920 00	
1427	Contingencies	4,000 00	
			$82,920 00

Bureau of Engineer of Street Openings.

1428	Salaries	$34,550 00	
1429	Contingencies	3,000 00	
			37,550 00

Bureau of Highways.

Administration.

1430	Salaries	$73,950 00	

Engineering Division.

1431	Salaries and Wages	17,650 00	
1432	General Supplies	1,500 00	
1433	Contingencies	4,540 00	
			$97,640 00
1434	Flagging Sidewalks and Fencing Vacant Lots in Front of City Property		1,000 00
	Viaducts, Maintenance and Repairs of—		
1435	Salaries and Wages	$4,998 00	
1436	General Supplies	3,000 00	
			7,998 00
1437	Street Signs, Maintenance of		5,000 00

Maintenance of Highways.

	Stone Block Pavement—		
1438	Salaries and Wages	$321,346 25	
1439	Hired Teams, Horses and Carts	92,950 00	
1440	Materials for Repairs and Replacements by Departmental Labor	9,804 00	
	Boulevards, Roads and Avenues—		
1441	Salaries and Wages	73,236 25	
1442	Hired Teams, Horses and Carts	41,112 50	
1443	Materials for Repairs and Replacements by Departmental Labor	4,902 00	
1444	Repairs and Replacements by Contract or Open Order	175,000 00	

1445	Repairs and Replacements due to Fire Burns	20,000 00		
1446	Repairs and Replacements due to Unknown Causes	10,000 00		
1447	Maintenance of Automobiles, including Equipment, Care and Storage	2,500 00		
1448	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	13,526 00		
1449	General Supplies	7,000 00		
			771,377 00	
				883,015 00

BUREAU OF INCUMBRANCES.

1450	Salaries and Wages	$19,720 50		
1451	Contingencies	6,000 00		
				25,720 50

BUREAU OF SEWERS.

Administration.

1452	Salaries	$42,770 00		
1453	General Supplies	1,000 00		
1454	Contingencies	1,500 00		
			$45,270 00	
	Engineering Division.			
1455	Salaries		26,750 00	
	Maintenance, Including Cleaning and Repairs.			
1456	Salaries and Wages	$190,103 75		
1457	Hired Teams, Horses and Carts	61,737 56		
1458	Materials for Repairs and Replacements by Departmental Labor	1,500 00		
1459	Repairs and Replacements by Contract or Open Order	25,000 00		
1460	General Supplies	10,000 00		
1461	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,920 00		
			290,261 25	
				362,281 25

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

Administration.

1462	Salaries	$20,090 00		
1463	General Supplies	500 00		
1464	Contingencies	500 00		
			$21,090 00	
	General Maintenance.			
1465	Salaries and Wages, Mechanical Force		43,144 00	
	Maintenance, Public Buildings and Offices.			
1466	Salaries and Wages, Labor Force		368,198 00	
1467	General Supplies		30,200 00	
1468	Materials for Repairs and Replacements by Departmental Labor		5,000 00	
1469	Repairs and Replacements by Contract or Open Order		96,200 00	
1470	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,200 00	
1471	Maintenance of Automobiles, includin Equipment, Care and Storage		2,500 00	
1472	Fuel		55,000 00	
1473	Hired Teams, Horses and Carts		28,476 00	
1474	Telephone Service		7,000 00	
1475	Contingencies		4,400 00	
				$662,408 00
	Maintenance, Public Baths and Comfort Stations.			
1476	Salaries and Wages, Superintendent's Office		$8,483 75	
	Interior Baths.			
	Salaries and Wages—			
1477	Rivington Street	$22,125 00		
1478	Allen Street	20,580 00		
1479	East Eleventh Street	17,340 00		
1480	East Twenty-third Street	20,580 00		
1481	West Forty-first Street	17,535 00		
1482	West Sixtieth Street	21,825 00		
1483	East Seventy-sixth Street	17,340 00		
1484	East One Hundred and Ninth Street	17,705 00		
1485	Oliver and Cherry Streets	17,340 00		
1486	Rutgers Place	17,340 00		
1487	East Fifty-fourth Street	17,340 00		
1488	Carmine Street	17,340 00		
			224,390 00	
	Public Comfort Stations.			
1489	Salaries and Wages		42,205 00	
	Free Floating Baths.			
1490	Salaries and Wages		25,665 00	
1491	General Supplies		5,000 00	
1492	Materials for Repairs and Replacements by Departmental Labor		2,000 00	
1493	Repairs and Replacements by Contract or Open Order		25,000 00	
1494	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		4,500 00	
1495	Fuel		52,000 00	
1496	Contingencies		1,000 00	
				390,243 75
				1,052,651 75

BUREAU OF BUILDINGS.

Administration.

1497	Salaries		$78,750 00	
	Field and Inspection Force.			
1498	Salaries and Wages		205,350 00	
1499	General Supplies		800 00	
1500	Maintenance of Automobiles, including Equipment, Care and Storage		2,500 00	
1501	Forage, Shoeing and Boarding Horses		500 00	
1502	Contingencies		3,120 00	
				291,020 00
				2,735,158 50

PRESIDENT, BOROUGH OF THE BRONX.

GENERAL ADMINISTRATION.

1503	Salaries		$59,600 00	
1504	Engineering Division, Salaries		14,850 00	
1505	Contingencies		500 00	
				$74,950 00

BUREAU OF HIGHWAYS.

Administration.

1506	Salaries		$47,950 00	
	Maintenance of Highways.			
1507	Salaries		27,660 00	
1508	Wages		359,793 00	
1509	Hired Teams, Horses and Carts		91,367 00	
1510	General Supplies		4,181 40	
1511	Materials for Repairs and Replacements by Departmental Labor		87,200 00	
1512	Repairs and Replacements by Contract or Open Order		5,000 00	
1513	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		2,900 00	
1514	Maintenance of Automobiles, including Equipment, Care and Storage		1,500 00	
1515	Forage, Shoeing and Boarding Horses		6,000 00	
1516	Fuel		1,925 00	
1517	Contingencies		3,000 00	
	Removing Incumbrances—			
1518	Salaries and Wages		3,000 00	
	Engineering Division.			
1519	Salaries and Wages		46,200 00	
1520	General Supplies		700 00	
1521	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		575 00	
1522	Contingencies		3,013 00	
				691,964 40

BUREAU OF SEWERS.

Administration.

1523	Salaries		$25,450 00	
1524	Contingencies		3,000 00	
	Maintenance, Including Cleaning and Repairs.			
1525	Salaries		20,750 00	
1526	Wages		85,930 00	
1527	Hired Teams, Horses and Carts		23,782 00	
1528	General Supplies		1,500 00	
1529	Materials for Repairs and Replacements by Departmental Labor		3,000 00	
1530	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		2,000 00	
1531	Forage, Shoeing and Boarding Horses		2,500 00	
	Boring Examinations.			
1532	Salaries and Wages		20,498 00	
	Engineering Division.			
	Preliminary Surveys, Estimates, etc.—			
1533	Salaries and Wages		31,000 00	
1534	General Supplies		1,000 00	
				220,410 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

Administration.

1535	Salaries		$12,400 00	
	Maintenance.			
1536	Salaries and Wages, Mechanical Force		20,616 60	
1537	Salaries and Wages, Labor Force		32,932 00	
1538	General Supplies		3,054 00	
1539	Repairs and Replacements by Contract or Open Order		1,335 00	
1540	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		100 00	
1541	Purchase of Furniture and Fittings		1,500 00	
1542	Forage, Shoeing and Boarding Horses		200 00	
1543	Fuel		5,408 25	
1544	Telephone Service		1,800 00	
1545	Contingencies		500 00	
	Public Baths.			
1546	Salaries and Wages, Mechanical Force		6,552 00	
1547	Salaries and Wages, Labor Force		11,284 00	
1548	Contingencies		300 00	
1549	Fuel		2,200 00	
				100,181 85

BUREAU OF BUILDINGS.

Administration.

1550	Salaries		$44,500 00	

Field and Inspection Force.

1551	Salaries	91,200 00	
1552	Contingencies	1,885 00	
1553	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	150 00	
1554	Forage, Shoeing and Boarding Horses	225 00	
			137,960 00
			1,225,466 25

PRESIDENT, BOROUGH OF BROOKLYN.

General Administration.

1555	Salaries	$86,340 00	
1556	Contingencies	2,500 00	
			$88,840 00

Division of Substructures.

1557	Salaries	$22,450 00	
1558	Contingencies	500 00	
			22,950 00

Bureau of Highways.

Administration.

1559	Salaries	$27,440 00	

Engineering Division.

1560	Salaries and Wages	83,150 00	

Maintenance of Highways.

1561	Salaries and Wages	480,558 74	
1562	Hired Teams, Horses and Carts	148,721 80	
1563	General Supplies	4,000 00	
1564	Materials for Repairs and Replacements by Departmental Labor	188,543 54	
1565	Repairs and Replacements by Contract or Open Order	7,000 00	
1566	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	17,000 00	
1567	Purchase of Furniture and Fittings	500 00	
1568	Maintenance of Automobiles, including Equipment, Care and Storage	3,000 00	
1569	Forage, Shoeing and Boarding Horses	9,600 00	
1570	Fuel	7,750 00	
1571	Contingencies	7,560 00	
			984,824 08

Division of Incumbrances.

Administration.

1572	Salaries	$11,250 00	

Maintenance.

1573	Salaries and Wages	7,308 00	
1574	Hired Teams, Horses and Carts	1,500 00	
1575	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,500 00	
1576	Contingencies	1,000 00	
			22,558 00

Bureau of Sewers.

Administration.

1577	Salaries	$48,200 00	

Maintenance, Including Cleaning and Repairs.

1578	Salaries and Wages	235,359 29	
1579	General Supplies	17,000 00	
1580	Materials for Repairs and Replacements by Departmental Labor	8,000 00	
1581	Repairs and Replacements by Contract or Open Order	15,000 00	
1582	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	5,000 00	
1583	Purchase of Furniture and Fittings	100 00	
1584	Maintenance of Automobiles, including Equipment, Care and Storage	3,000 00	
1585	Purchase of Horses	900 00	
1586	Forage, Shoeing and Boarding Horses	10,000 00	
1587	Hired Teams, Horses and Carts	55,000 00	
1588	Fuel	12,000 00	
1589	Contingencies	4,000 00	
1590	Special Contract Obligations	25,000 00	
			438,559 29

Engineering Technical Staff.

1591	Salaries and Wages		99,600 00

Bureau of Public Buildings and Offices.

Administration.

1592	Salaries	$45,750 00	

Maintenance.

1593	Salaries and Wages	279,687 30	
1594	General Supplies	41,352 00	
1595	Materials for Repairs and Replacements by Departmental Labor	3,750 00	
1596	Repairs and Replacements by Contract or Open Order	70,000 00	
1597	Forage, Shoeing and Boarding Horses	475 00	
1598	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,000 00	
1599	Fuel	45,200 00	
1600	Telephone Service	10,000 00	
1601	Contingencies	1,000 00	
			498,214 30

Bureau of Buildings.

Administration.

1602	Salaries	$55,790 00	

Inspection and Field Force.

1603	Salaries	156,800 00	
1604	Contingencies	5,000 00	
1605	Maintenance of Automobiles, including Equipment, Care and Storage	1,000 00	
			218,590 00
			2,374,135 65

PRESIDENT, BOROUGH OF QUEENS.

General Administration.

1606	Salaries	$46,250 00	
1607	Contingencies	3,000 00	
			$49,250 00

Bureau of Highways.

Administration.

1608	Salaries	$26,740 00	

Engineering and Inspection Force.

1609	Salaries and Wages	12,000 00	

Maintenance of Highways.

1610	Salaries and Wages	$417,430 00	
1611	Hired Teams, Horses and Carts	90,760 00	
1612	Materials for Repairs and Replacements by Departmental Labor	50,000 00	
1613	Repairs and Replacements by Contract or Open Order	7,500 00	
1614	General Supplies	3,000 00	
1615	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	3,500 00	
1616	Maintenance of Automobiles, including Equipment, Care and Storage	600 00	
1617	Fuel	600 00	
1618	Contingencies	9,000 00	
			582,390 00
			621,130 00

Bureau of Sewers.

Administration.

1619	Salaries	$11,500 00	

Engineering Division.

	Salaries and Wages—		
1620	Chief Engineer, Assistant Engineer and Draftsman	4,800 00	
1621	Preliminary Surveys	9,425 00	
1622	For Preparation of Drainage and Sewerage District Plans	17,400 00	

Maintenance, Including Cleaning and Repairs.

1623	Salaries and Wages	85,991 00	
1624	Hired Teams, Horses and Carts, including Horse and Carriage Hire	20,880 00	
1625	Materials for Repairs and Replacements by Departmental Labor	1,500 00	
1626	Repairs and Replacements by Contract or Open Order	500 00	
1627	General Supplies	4,000 00	
1628	Contingencies	3,000 00	
	Newtown Disposal Works—		
1629	Salaries and Wages	13,048 50	
1630	General Supplies	1,500 00	
1631	Repairs and Replacements by Contract or Open Order	500 00	
1632	Fuel	2,400 00	
	Jamaica Disposal Works—		
1633	Salaries and Wages	$15,232 50	
1634	General Supplies	2,000 00	
1635	Materials for Repairs and Replacements by Departmental Labor	350 00	
1636	Repairs and Replacements by Contract or Open Order	100 00	
1637	Fuel	1,250 00	
	Far Rockaway Disposal Works—		
1638	Salaries and Wages	12,580 50	
1639	General Supplies	2,500 00	
1640	Materials for Repairs and Replacements by Departmental Labor	200 00	
1641	Repairs and Replacements by Contract or Open Order	2,500 00	
1642	Fuel	3,700 00	
			216,857 50

Bureau of Street Cleaning.

Administration.

1643	Salaries	$9,952 00	

Sweeping, Carting and Final Disposition.

1644	Salaries and Wages	129,654 00	
1645	Hired Teams, Horses and Carts	144,149 00	
1646	Special Contract Obligations	10,000 00	
1647	General Supplies	4,000 00	
1648	Materials for Repairs and Replacements by Departmental Labor	1,200 00	
1649	Repairs and Replacements by Contract or Open Order	2,500 00	
1650	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	3,500 00	
1651	Fuel	1,000 00	
1652	Contingencies	500 00	
1653	Purchase of Horses	750 00	
1654	Maintenance of Automobiles, including Equipment, Care and Storage	600 00	
1655	Forage, Shoeing and Boarding Horses	1,650 00	
			309,445 00

Bureau of Public Buildings and Offices.

Administration.

1656	Salaries	$7,050 00	

Maintenance.

1657	Salaries and Wages	61,748 30	
1658	General Supplies	8,500 00	

1659	Materials for Repairs and Replacements by Departmental Labor	2,000 00	
1660	Repairs and Replacements by Contract or Open Order.	4,000 00	
1661	Fuel	7,000 00	
1662	Contingencies	750 00	
1663	Telephone Service	4,500 00	
	Maintenance, Public Baths and Comfort Stations.		
	Salaries and Wages—		
1664	Foreman	1,460 00	
1665	Interior Bath	6,150 00	
1666	Free Floating Bath—Summer Force	1,590 00	
			104,748 30

BUREAU OF BUILDINGS.

Administration.

1667	Salaries	$18,018 00	
	Inspection and Field Force.		
1668	Salaries and Wages	26,750 00	
1669	Contingencies	3,500 00	
			48,268 00
			1,349,708 80

PRESIDENT, BOROUGH OF RICHMOND.

GENERAL ADMINISTRATION.

1670	Salaries	$49,480 00	
1671	General Supplies	650 00	
1672	Maintenance of Automobiles, including Equipment, Care and Storage	1,900 00	
1673	Contingencies	1,250 00	
			$53,280 00

BUREAU OF ENGINEERING (CONSTRUCTION).

1674	Salaries and Wages	$39,450 00	
1675	General Supplies	1,000 00	
1676	Repairs and Replacements by Contract or Open Order.	200 00	
1677	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,000 00	
1678	Contingencies	1,350 00	
			43,000 00

BUREAU OF HIGHWAYS.

Administration.

1679	Salaries	$9,750 00	
	Maintenance.		
1680	Salaries and Wages	109,581 00	
1681	Hired Teams, Horses and Carts	86,746 00	
1682	General Supplies	2,000 00	
1683	Materials for Repairs and Replacements by Departmental Labor	89,194 00	
1684	Repairs and Replacements by Contract or Open Order.	500 00	
1685	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	2,000 00	
1686	Maintenance of Automobiles, including Equipment, Care and Storage	1,000 00	
1687	Forage, Shoeing and Boarding Horses	65 00	
1688	Fuel	1,700 00	
1689	Contingencies	2,400 00	
			304,936 00

BUREAU OF SEWERS.

Administration.

1690	Salaries	$8,250 00	
	Maintenance.		
1691	Salaries and Wages	45,380 00	
1692	Hired Teams, Horses and Carts	2,000 00	
1693	General Supplies	1,400 00	
1694	Materials for Repairs and Replacements by Departmental Labor	5,000 00	
1695	Repairs and Replacements by Contract or Open Order.	700 00	
1696	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,815 00	
1697	Maintenance of Automobiles, including Equipment, Care and Storage	450 00	
1698	Contingencies	800 00	
			65,795 00

BUREAU OF STREET CLEANING.

Administration.

1699	Salaries	$11,070 00	
	Maintenance and Final Disposition.		
1700	Salaries	8,700 00	
1701	Wages	162,732 00	
1702	Hired Teams, Horses and Carts	8,500 00	
1703	General Supplies	3,000 00	
1704	Materials for Repairs and Replacements by Departmental Labor	12,875 00	
1705	Repairs and Replacements by Contract or Open Order.	3,000 00	
1706	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,200 00	
1707	Maintenance of Automobiles, including Equipment, Care and Storage	500 00	
1708	Forage, Shoeing and Boarding Horses	19,000 00	
1709	Fuel	1,100 00	
1710	Contingencies	500 00	
			232,177 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

1711	Salaries and Wages	$40,342 00	
1712	General Supplies	8,369 00	
1713	Telephone Service	3,800 00	
1714	Materials for Repairs and Replacements by Departmental Labor	4,000 00	
1715	Purchase of Furniture and Fittings	2,500 00	
1716	Fuel	3,700 00	
1717	Contingencies	300 00	
			63,011 00

BUREAU OF BUILDINGS.

Administration.

1718	Salaries and Wages	$10,500 00	
	Inspection and Field Force.		
1719	Salaries and Wages	13,850 00	
1720	General Supplies	500 00	
1721	Repairs and Replacements by Contract or Open Order.	200 00	
1722	Maintenance of Automobiles, including Equipment, Care and Storage	900 00	
1723	Forage, Shoeing and Boarding Horses	500 00	
1724	Contingencies	900 00	
			27,350 00
			789,549 00
	Total, City of New York		$153,775,145 53

THE COUNTY OF NEW YORK.

BOARD OF CITY RECORD, COUNTY OF NEW YORK.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS OTHER THAN SUPREME COURT.

1725	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	$12,950 00	
1726	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements	11,450 00	
1727	Blank Books	24,600 00	
			$49,000 00

SHERIFF OF THE COUNTY OF NEW YORK.

SHERIFF'S OFFICE.

1728	Salaries	$102,580 00	
	COUNTY JAIL.		
1729	Salaries	22,332 00	
1730	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	$200 00	
1731	Forage, Shoeing and Boarding Horses	800 00	
1732	Support of Indigent Prisoners	3,100 00	
1733	General Supplies	350 00	
1734	Telephone Service	1,050 00	
1735	Contingencies	2,650 00	
		8,150 00	
			133,062 00

SUPREME COURT, FIRST DEPARTMENT.

1736	Salaries	$941,750 00	
1737	Salaries of Official Referees (Chap. 379, Laws of 1908)	23,000 00	
1738	Compensation of Justices from Other Districts	50,000 00	
1739	General Supplies, including Printing	22,600 00	
1740	Telephone Service	400 00	
1741	Contingencies	1,500 00	
		$1,039,250 00	
	APPELLATE DIVISION—COURT HOUSE, MAINTENANCE OF.		
1742	Salaries and Wages	$19,280 00	
1743	General Supplies	7,230 00	
1744	Repairs and Replacements by Contract or Open Order	3,500 00	
1745	Contingencies	750 00	
1746	Telephone Service	600 00	
		31,360 00	
			1,070,610 00

COURT OF GENERAL SESSIONS, COUNTY OF NEW YORK.

1747	Salaries	$295,000 00	
1748	Contingencies	1,250 00	
1749	Telephone Service	1,250 00	
			297,500 00

SURROGATES' COURT, COUNTY OF NEW YORK.

GENERAL ADMINISTRATION.

1750	Salaries	$165,450 00	
1751	General Supplies	1,540 00	
1752	Telephone Service	125 00	
1753	Contingencies	535 00	
1754	Fund for Sheriff's Services	500 00	
		$168,150 00	
	PRESERVATION OF PUBLIC RECORDS.		
1755	Salaries	$11,400 00	
1756	General Supplies	280 00	
		11,680 00	
			179,830 00

MISCELLANEOUS, COUNTY OF NEW YORK.

1757	County Contingent Fund	$12,000 00
1758	Fees and Expenses of Jurors	200,000 00
1759	Disbursements and Fees under section 658, Code of Criminal Procedure	4,500 00
1760	Fees of Stenographers for transcribing minutes of trials in the Court of General Sessions and Supreme Court, and providing for the expense of preparing and printing Minutes and Judgment Rolls in the Court of General Sessions and Supreme Court, as provided by chapter 81, Laws of 1888, and chapter 379, Laws of 1889	15,000 00

1761	Fees of witnesses subpoenaed on behalf of the People, etc. (chapter 98, Laws of 1895)	25,500 00	
1762	For the Establishment and Maintenance of a Library for the Court of General Sessions and for the Supreme Court, Criminal Part, to be expended under the direction of the Judges of the Court of General Sessions	1,000 00	
1763	Rent—For payment of rent of property leased for public offices and other purposes of the County of New York for which no other provision has been made	28,270 00	
1764	Advertising Official Canvass and Election Notices	10,000 00	
1765	Compensation for Extra Clerks to Board of County Canvassers	3,500 00	
			299,770 00

THE NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.

ARMORIES AND DRILL ROOMS. FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD AND NAVAL MILITIA, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

Wages—

1766	Seventh Regiment	$13,505 00	
1767	Eighth Coast Artillery District	13,505 00	
1768	Ninth Coast Artillery District	12,410 00	
1769	Twelfth Regiment	12,410 00	
1770	Twenty-second Regiment	12,410 00	
1771	Sixty-ninth Regiment	15,695 00	
1772	Seventy-first Regiment	15,695 00	
1773	First Battery	17,885 00	
1774	Second Battery	7,300 00	
1775	Squadron "A"	28,835 00	
1776	First Company Signal Corps	5,110 00	
1777	Headquarters Field Hospital	4,015 00	
1778	Headquarters First Battalion Field Artillery	1,460 00	
1779	Headquarters First Brigade	1,460 00	
1780	First Battalion Naval Militia	17,155 00	
1781	Headquarters Naval Militia	1,460 00	
1782	Seventh Regiment Armory, Trustees of, for payment to the Trustees of the Seventh Regiment Armory Building, for repairing, altering, maintaining and improving said building, pursuant to the provisions of chapter 518, Laws of 1893	8,000 00	
			188,310 00

COMMISSIONER OF RECORDS, COUNTY OF NEW YORK.

1783	Salaries	$71,600 00	
1784	General Supplies	1,750 00	
1785	Materials for Repairs and Replacements by Departmental Labor	700 00	
1786	Repairs and Replacements by Contract or Open Order	150 00	
1787	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	200 00	
1788	Telephone Service	192 00	
1789	Contingencies	250 00	
			74,842 00

COUNTY CLERK, COUNTY OF NEW YORK.

1790	General Administration, Salaries	$107,300 00	
1791	Marriage Bureau, Salaries	6,000 00	
1792	Preservation of Public Records, Salaries	14,800 00	
1793	Re indexing Liens and Claims upon Land, Salaries	10,900 00	
1794	General Supplies	500 00	
1795	Telephone Service	200 00	
1796	Contingencies	1,000 00	
			140,700 00

DISTRICT ATTORNEY, COUNTY OF NEW YORK.

1797	General Administration, Salaries	$291,320 00		
1798	Bureau of Special Sessions Information, Salaries	17,520 00		
			$308,840 00	
1799	General Supplies		1,550 00	
1800	Telephone Service		4,500 00	
1801	Contingencies		43,950 00	
				358,840 00

COMMISSIONER OF JURORS, COUNTY OF NEW YORK.

1802	Salaries	$48,300 00	
1803	General Supplies	2,244 00	
1804	Telephone Service	200 00	
1805	Contingencies	2,556 00	
			53,300 00

THE REGISTER, COUNTY OF NEW YORK.

GENERAL ADMINISTRATION.

1806	Salaries and Wages	$210,920 00		
1807	General Supplies	1,000 00		
1808	Telephone Service	250 00		
1809	Contingencies	500 00		
			$212,670 00	

PRESERVATION OF PUBLIC RECORDS.

1810	Salaries	$15,600 00		
1811	Copying Old Maps	5,000 00		
1812	General Supplies	500 00		
			21,100 00	

LAND TITLE REGISTRATION.

1813	For Salaries of Positions Established Pursuant to Provisions of Chapter 444, Laws of 1908		2,800 00	
1814	General Supplies		200 00	
				236,770 00

PUBLIC ADMINISTRATOR, COUNTY OF NEW YORK.

1815	Salaries	$25,330 00	
1816	General Supplies	300 00	
1817	Contingencies	300 00	
1818	Telephone Service	200 00	
			26,130 00

CHARITABLE INSTITUTIONS, COUNTY OF NEW YORK.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.
(Chapter 546, Laws of 1896.)

1819	For furnishing clothing, etc., for 89 inmates, at $20 each	$1,780 00		
1819½	Funeral expenses of inmate	17 00		
			$1,797 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1820	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	21,500 00	

NEW YORK INSTITUTION FOR THE BLIND.
(Section 230, Greater New York Charter, as amended by Chapter 196, Laws of 1899.)

1821	For clothing 54 State Pupils, at $50 each per annum	2,700 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.
(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1822	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils at $30 per annum	43,700 00	

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.
(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1823	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	45,000 00	

WESTERN NEW YORK INSTITUTION FOR DEAF MUTES.
(Chapter 325, Laws of 1863.)
(Chapter 331, Laws of 1876.)
(Chapter 36, Laws of 1892.)

1824	For clothing State Pupils, at $30 per annum	60 00	

CENTRAL NEW YORK INSTITUTION FOR DEAF MUTES.
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1825	For clothing State Pupils, at $30 per annum	120 00	
			$114,877 00

Total, New York County 3,223,541 00

THE COUNTY OF KINGS.

1826	For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909	$18,872 85	
1827	For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110 and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909	17,101 62	
1828	For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909	10,688 50	
			$46,662 97

BOARD OF CITY RECORD, KINGS COUNTY.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS.

1829	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks		$8,300 00	
1830	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements		4,825 00	
1831	Blank Books		22,375 00	
1832	Supreme Court, Second Department		6,500 00	
				42,000 00

REGISTER OF KINGS COUNTY.

GENERAL ADMINISTRATION.

1833	Salaries	$135,940 00		
1834	General Supplies	1,500 00		
1835	Contingencies	2,600 00		
1836	Telephone Service	400 00		
			$140,440 00	

HANDLING BOOKS AND PAPERS.

1837	Salaries	8,640 00	
1838	New Land Map of the County of Kings, Pursuant to the Provisions of Chapter 344, Laws of 1909	3,500 00	

RECOPYING AND INDEXING CONVEYANCES AND MUTILATED RECORDS.

1839	Copyists	14,400 00	

COMPENSATION OF COPYISTS AND RECORDING CLERKS.

1840	Copyists, at 5c. per folio	48,000 00	

LAND TITLE REGISTRATION.

1841	Expenses of	6,000 00	
			220,980 00

SHERIFF OF KINGS COUNTY.

SHERIFF'S OFFICE.

1842	Salaries	$63,150 00	

COUNTY JAIL.

1843	Salaries	18,050 00	
1844	General Supplies	6,700 00	
1845	Telephone Service	900 00	
1846	Contingencies	3,220 00	
			92,020 00

SUPREME COURT, SECOND DEPARTMENT.

1847	Salaries	$369,200 00	
1848	Compensation of Justices from Other Counties Assigned to Kings County	1,000 00	
1849	General Supplies	2,000 00	
1850	Increase of Law Library	1,000 00	
1851	Telephone Service	1,000 00	
1852	Contingencies	1,000 00	
1853	Appellate Division, Contingencies	1,000 00	
			376,200 00

COUNTY COURT, KINGS COUNTY.

1854	Salaries	$132,300 00	
1855	Additional Compensation to Justices for Services in Drawing Jurors	5,000 00	
1856	General Supplies	675 00	
1857	Telephone Service	423 00	
1858	Contingencies	560 00	
			138,958 00

SURROGATE'S COURT, KINGS COUNTY.

1859	Salaries	$86,980 00	
1860	Telephone Service	300 00	
1861	Contingencies	500 00	
1862	General Supplies	1,200 00	
			88,980 00

COMMISSIONER OF RECORDS, KINGS COUNTY.

1863	Salaries	$98,560 00	
1864	General Supplies	1,008 00	
1865	Telephone Service	324 00	
1866	Contingencies	108 00	
			100,000 00

COUNTY CLERK, KINGS COUNTY.

	Salaries—			
1867	General Administration	$69,200 00		
1868	Marriage Bureau	4,800 00		
1869	Recopying and Rebinding Mutilated and Wornout Records	7,200 00		
1870	Moving and Sorting Various Records and Books	2,880 00		
			$84,080 00	
	Repairs and Replacements by Contract or Open Order—			
1871	Recopying and Renovating Maps	$400 00		
1872	Recopying and Rebinding Mutilated and Wornout Records	500 00		
			900 00	
1873	Telephone Service		400 00	
1874	Contingencies		1,200 00	
				86,580 00

DISTRICT ATTORNEY, KINGS COUNTY.

1875	Salaries	$102,720 00	
1876	General Supplies	2,000 00	
1877	Contingencies	9,000 00	
1878	Telephone Service	400 00	
			114,120 00

COMMISSIONER OF JURORS, KINGS COUNTY.

1879	Salaries	$35,790 00	
1880	General Supplies	150 00	
1881	Telephone Service	200 00	
1882	Contingencies	1,450 00	
			37,590 00

THE NATIONAL GUARD AND NAVAL MILITIA, KINGS COUNTY.

ARMORIES AND DRILL ROOMS—FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD AND NAVAL MILITIA, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

	Wages—			
1883	Thirteenth Coast Artillery District	$20,440 00		
1884	Fourteenth Regiment	15,695 00		
1885	Twenty-third Regiment	16,060 00		
1886	Forty-seventh Regiment	14,600 00		
1887	Third Battery	16,790 00		
1888	Squadron "C"	26,645 00		
1889	Second Company, Signal Corps	6,935 00		
1890	Headquarters Second Brigade	1,460 00		
1891	Second Battalion, Naval Militia	18,359 50		
1892	Headquarters Chief of Coast Artillery	1,460 00		
				138,444 50

MISCELLANEOUS, KINGS COUNTY.

1893	County Contingent Fund	$5,000 00	
1894	Fees and Expenses of Jurors	100,000 00	
1895	Disbursements and Fees under Section 658, Code of Criminal Procedure	2,500 00	
1896	Law Library in Brooklyn	9,400 00	
1897	Supplies for County Offices and Courts	500 00	
1898	Advertising Official Canvass and Election Notices	6,000 00	
1899	Compensation for Extra Clerks to Board of County Canvassers	2,500 00	
1900	Rent	2,200 00	
1901	Compensation of Stenographer to Grand Jury	4,500 00	
			132,600 00

CHARITABLE INSTITUTIONS, KINGS COUNTY.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.

(Chapter 546, Laws of 1896.)

1902	For furnishing clothing, etc., for 27 inmates, at $20 each	$540 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1903	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	0,100 00	

NEW YORK INSTITUTION FOR THE BLIND.

(Section 230, Greater New York Charter, as amended by Chapter 196, Laws of 1899.)

1904	For clothing 30 State Pupils, at $50 each per annum	1,500 00	

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.

(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1905	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	18,800 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1906	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	20,400 00	
			47,340 00
	Total, Kings County		1,662,475 47

THE COUNTY OF QUEENS.

1907	For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161, of said Chapter	$32,751 94	
1908	For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110 and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909	3,694 09	
1909	For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160, and section 279 of chapter 30 of the Consolidated Laws of 1909	6,274 32	
1910	For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909	4,076 70	
1911	For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909	2,308 81	
			49,105 86

BOARD OF CITY RECORD, QUEENS COUNTY.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS.

1912	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	$1,400 00	
1913	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements	1,400 00	
1914	Blank Books	1,000 00	
			3,800 00

SUPREME COURT AND COUNTY COURT, QUEENS COUNTY.

1915	Salaries	$52,500 00	
1916	Additional compensation to County Judge for Services in Drawing Jurors	2,500 00	
1917	Court Fund	60,000 00	
1918	Contingencies	100 00	
			115,100 00

SHERIFF, QUEENS COUNTY.

1919	Sheriff's Office—Salaries	$37,600 00	
1920	County Jail—Salaries	18,100 00	
1921	General Supplies	22,000 00	
1922	Telephone Service	450 00	
1923	Contingencies	5,000 00	
			83,150 00

SURROGATE'S COURT, QUEENS COUNTY.

1924	Salaries	$16,520 00	
1925	General Supplies	600 00	
1926	Telephone Service	300 00	
1927	Contingencies	250 00	
			17,670 00

COUNTY CLERK, QUEENS COUNTY.

1928	For Payment of Legal Fees	$15,000 00	
1929	Repairing and Rebinding Books of Public Record	1,500 00	
1930	Recopying and Transcribing Books of Public Record	9,000 00	
1931	Recopying and Redrawing Maps	2,000 00	
1932	Repairs and Replacements by Contract or Open Order	500 00	
1933	Purchase of new Atlas for Queens County	200 00	
			28,200 00

DISTRICT ATTORNEY, QUEENS COUNTY.

1934	Salaries	$20,600 00	
1935	Contingencies	7,000 00	
1936	General Supplies	200 00	
1937	Telephone Service	400 00	
			28,200 00

COMMISSIONER OF JURORS, QUEENS COUNTY.

1938	Salaries	$9,500 00	
1939	Jury Notice Servers' Fees	2,300 00	
1940	General Supplies	500 00	
1941	Contingencies	50 00	
1942	Telephone Service	100 00	
			12,450 00

PUBLIC ADMINISTRATOR, QUEENS COUNTY.

1943	Salary of Public Administrator		1,200 00

MISCELLANEOUS, QUEENS COUNTY.

1944	County Contingent Fund	$4,000 00	
1945	Supplies for County Offices	500 00	
1946	Advertising Official Canvass and Election Notices	2,000 00	
1947	Compensation for Extra Clerks to Board of County Canvassers	750 00	
			7,250 00

THE NATIONAL GUARD, QUEENS COUNTY.

ARMORIES AND DRILL ROOM. FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

1948	Wages—Company "I," Tenth Regiment		5,110 00

CHARITABLE INSTITUTIONS, QUEENS COUNTY.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.

(Chapter 546, Laws of 1896.)

1949	For furnishing clothing, etc., for 3 inmates, at $20 each	$60 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1950	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	990 00	

NEW YORK INSTITUTION FOR THE BLIND.

(Section 230, Greater New York Charter, as amended by Chapter 196, Laws of 1899.)

1951	For clothing 5 State Pupils, at $50 each per annum	250 00	

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.

(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867,)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1952	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	1,320 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1953	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	2,190 00	4,810 00

Total, Queens County 356,045 86

THE COUNTY OF RICHMOND.

1954	For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161, of said chapter	$7,311 62	
1955	For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909	824 68	
1956	For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160, and section 279 of chapter 30 of the Consolidated Laws of 1909	1,400 69	
1957	For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909	910 09	
1958	For compensation of Confidential Clerks to Justices of the Supreme Court designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909	515 43	
			$10,962 51

BOARD OF CITY RECORD, RICHMOND COUNTY.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS.

1959	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	$1,500 00		
1960	Stationery, including Letter or Writing Paper or Envelopes, with Printed Headings or Endorsements	750 00		
1961	Blank Books	1,900 00		
			$4,150 00	
	ARREARAGES.			
1962	Blank Books		300 00	
				4,450 00

SHERIFF, RICHMOND COUNTY.

1963	Salaries and Wages	$14,245 00	
1964	General Supplies	5,900 00	
1965	Forage, Shoeing and Boarding Horses	750 00	
1966	Fuel	1,500 00	
1967	Telephone Service	250 00	
1968	Contingencies	850 00	
			23,495 00

COUNTY COURT AND SURROGATE'S COURT, RICHMOND COUNTY.

1969	Salaries	$15,650 00	
1970	Additional Compensation to County Judge for Services in Drawing Jurors	2,500 00	
1971	Telephone Service	250 00	
1972	Contingencies	250 00	
			18,650 00

COUNTY CLERK, RICHMOND COUNTY.

1973	General Administration, Salaries	$15,900 00	
1974	Copying Indices to Lexicographical System	7,500 00	
1975	Recopying, Rebinding and Renumbering Old Libers	200 00	
1976	General Supplies	100 00	
1977	Telephone Service	200 00	
1978	Contingencies	50 00	
			23,950 00

DISTRICT ATTORNEY, RICHMOND COUNTY.

1979	Salaries	$8,850 00	
1980	Contingencies	3,500 00	
			12,350 00

COMMISSIONER OF JURORS, RICHMOND COUNTY.

1981	Salaries	$3,900 00	
1982	Jury Notice Server's Fees	250 00	
1983	General Supplies	125 00	
1984	Contingencies	125 00	
			4,400 00

MISCELLANEOUS, RICHMOND COUNTY.

1985	County Contingent Fund	$2,000 00	
1986	Fees and Expenses of Jurors in Richmond County	8,000 00	
1987	Disbursements and Fees under Section 658, Code of Criminal Procedure	500 00	
1988	Rent—For payment of rent for property leased for public offices and other purposes of the County of Richmond for which no other provision has been made	25 00	

1989	Supplies for County Offices	100 00	
1990	Advertising Official Canvass and Election Notices	2,000 00	
1991	Compensation for Extra Clerks to Board of County Canvassers	600 00	
			13,225 00

CHARITABLE INSTITUTIONS, RICHMOND COUNTY.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.

(Chapter 546, Laws of 1896.)

1992	For furnishing clothing, etc., for one inmate, at $20	$20 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867,)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1993	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	360 00	

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.

(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867,)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1994	For clothing State Pupils, at $30 per annum	210 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1995	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	990 00	
			1,580 00
	Total, Richmond County		113,062 51

THE CITY OF NEW YORK.

1996	Amount of deficiency on January 1, 1909, in the product of taxes theretofore levied, deemed to be uncollectible and not otherwise provided for (Chapter 209, Laws of 1906)		4,000,000 00
	Total		**$163,130,270 37**

New York, October 29, 1909.

GEO. B. McCLELLAN,
Mayor;
H. A. METZ,
Comptroller;
P. F. McGOWAN,
President, Board of Aldermen;
JOHN F. AHEARN,
President, Borough of Manhattan;
BIRD S. COLER,
President, Borough of Brooklyn;
JOHN F. MURRAY,
President, Borough of The Bronx;
LAWRENCE GRESSER,
President, Borough of Queens;
GEORGE CROMWELL,
President, Borough of Richmond;
BOARD OF ESTIMATE AND APPORTIONMENT.

SUPPORTING SCHEDULES AND SCHEDULES OF SALARIES, AND SALARIES AND WAGES.

BUDGET FOR 1910.

THE CITY OF NEW YORK.

THE MAYORALTY.

THE EXECUTIVE.

1	Salaries—			
	Mayor	$15,000 00		
	Secretary to the Mayor	6,000 00		
	Executive Secretary	6,000 00		
	Chief Clerk and Bond and Warrant Clerk.	4,000 00		
	Executive Clerk	2,100 00		
	Executive Clerk	1,050 00		
	Clerk	2,250 00		
	Accountant	2,250 00		
	Accountant	1,750 00		
	Examiner of Accounts	2,250 00		
	Executive Stenographer	1,800 00		
	Stenographer	3,000 00		
	Messenger	1,950 00		
	Telephone Operator	900 00		
			$50,300 00	
2	Contingencies		2,500 00	
3	Telephone Service		1,500 00	
				$54,300 00

BUREAU OF LICENSES.

4	Salaries, Chief of Bureau		$3,500 00	
5	Salaries, Manhattan and The Bronx—			
	Deputy Chief	$2,000 00		
	Financial Clerk	1,650 00		
	Clerks, 5 at $1,200	6,000 00		
	Clerks, 2 at $1,050	2,100 00		
	Stenographer and Typewriter	1,200 00		
	Chief Inspector of Taxicabs	1,800 00		
	Inspectors of Taxicabs, 6 at $1,200	7,200 00		
	Inspectors of Dancing Academies, 4 at $1,200	4,800 00		
			26,750 00	
				30,250 00
6	Salaries, Brooklyn—			
	Deputy Chief	$2,000 00		
	Financial Clerk	1,650 00		
	Clerk	1,200 00		
			$4,850 00	
7	Salaries, Queens—			
	Financial Clerk		1,200 00	
8	Salaries, Richmond—			
	Financial Clerk		1,200 00	
				7,250 00
9	Contingencies			10,300 00
10	Telephone Service			200 00

BUREAU OF WEIGHTS AND MEASURES.

11	Salaries—			
	Chief of Bureau	$2,500 00		
	Sealer of Weights and Measures	1,900 00		
	Sealer of Weights and Measures	1,700 00		
	Sealers of Weights and Measures, 8 at $1,500	12,000 00		
	Inspectors of Weights and Measures, 2 at $1,500	3,000 00		
	Inspectors of Weights and Measures, 7 at $1,200	8,400 00		
	Clerk	600 00		
			$30,100 00	
12	Contingencies		2,500 00	
13	General Supplies		500 00	
				33,100 00
				$135,400 00

THE BOARD OF ALDERMEN AND CITY CLERK.

GENERAL ADMINISTRATION.

14	Salaries—			
	President, Board of Aldermen	$5,000 00		
	Aldermen, 73, at $2,000	146,000 00		
	City Clerk	8,000 00		
	Chief Clerk	5,000 00		
	Assistant Chief Clerk	2,500 00		
	Stenographer	2,500 00		
	Document Clerk	2,650 00		
	Assistant Document Clerk	2,400 00		
	Clerks, 2 at $2,000	4,000 00		
	Clerk	1,750 00		
	Clerks, 2 at $1,800	3,600 00		
	Clerks, 3 at $1,500	4,500 00		
	Clerk	1,350 00		
	Librarian	2,000 00		
	Sergeant-at-Arms	1,500 00		
	Assistant Sergeants-at-Arms, 2 at $1,200	2,400 00		
	Assistant Sergeants-at-Arms, 6 at $1,000	6,000 00		
			$201,150 00	
15	Contingencies		2,500 00	
				$203,650 00

OFFICE, PRESIDENT, BOARD OF ALDERMEN.

16	Salaries—			
	Private Secretary		$3,000 00	
	Confidential Stenographer		1,500 00	
	Auctioneer's Process Server		1,000 00	
				5,500 00

OFFICE OF CITY CLERK.

17	Salaries—			
	Manhattan:			
	First Deputy	$5,000 00		
	Cashier	2,250 00		
	Custodians, 2 at $2,000	4,000 00		
	Custodian	1,350 00		
	Clerks, 2 at $2,250	4,500 00		
	Telephone Operator	1,300 00		
	Stenographer and Typewriter.	1,050 00		
			$19,450 00	
18	Marriage License Bureau—			
	Clerk in Charge	$2,500 00		
	Clerk	2,250 00		
	Clerks, 6 at $1,200	7,200 00		
	Italian Interpreter	1,200 00		
	Hebrew Interpreter	1,200 00		
			14,350 00	
19	The Bronx:			
	Deputy City Clerk		1,500 00	
20	Brooklyn:			
	Clerk	$2,650 00		
	Custodian, at $4 per day	1,256 00		
	Messenger	1,350 00		
	Clerks, 4 at $1,200	4,800 00		
	Italian Interpreter	1,200 00		
	Hebrew Interpreter	1,200 00		
			12,456 00	

21	Queens:			
	Deputy City Clerk	2,000 00		
22	Richmond:			
	Deputy City Clerk	1,500 00		
			$51,256 00	
23	Contingencies		1,000 00	
				$52,256 00
				261,406 00

DEPARTMENT OF FINANCE.

THE COMPTROLLER.

24	Salary, Comptroller		$15,000 00

MAIN OFFICE.

25	Salaries—		
	Deputy Comptrollers, 2 at $7,500	$15,000 00	
	Assistant Deputy Comptroller	6,000 00	
	Secretary to Comptroller	5,000 00	
	Clerk to Comptroller	2,100 00	
	Chief Accountant and Bookkeeper	6,000 00	
	Chief Stock and Bond Clerk	5,000 00	
	Chief Examiner of Accounts of Institutions	5,000 00	
	Appraiser of Real Estate	4,000 00	
	Chief Clerk	3,150 00	
	Clerk	4,500 00	
	Clerk	3,000 00	
	Clerks, 2 at $2,800	5,600 00	
	Clerks, 3 at $2,400	7,200 00	
	Clerk	2,350 00	
	Clerks, 2 at $2,250	4,500 00	
	Clerks, 2 at $2,100	4,200 00	
	Clerks, 2 at $1,950	3,900 00	
	Clerks, 11 at $1,800	19,800 00	
	Clerks, 7 at $1,650	11,550 00	
	Clerks, 6 at $1,500	9,000 00	
	Clerks, 8 at $1,350	10,800 00	
	Clerks, 5 at $1,200	6,000 00	
	Clerks, 8 at $1,050	8,400 00	
	Clerks, 5 at $900	4,500 00	
	Disbursing Clerks, 2 at $2,250	4,500 00	
	Disbursing Clerk	1,650 00	
	Junior Clerks, 3 at $600	1,800 00	
	Junior Clerks, 6 at $540	3,240 00	
	Junior Clerks, 4 at $480	1,920 00	
	Office Boys, 4 at $300	1,200 00	
	Expert Accountants, 2 at $5,000	10,000 00	
	Expert Accountants, 2 at $4,000	8,000 00	
	Expert Accountants, 7 at $3,500	24,500 00	
	Expert Accountant	3,000 00	
	Expert Accountants, 3 at $2,500	7,500 00	
	Auditor of Accounts	4,000 00	
	Expert Accountants, 3 at $2,500	7,500 00	
	Auditor of Accounts	4,000 00	
	Accountant	3,000 00	
	Accountant	2,400 00	
	Accountant	2,100 00	
	Accountants, 2 at $1,950	3,900 00	
	Accountant	1,650 00	
	Accountant	1,500 00	
	Examiner	2,550 00	
	Examiner	2,400 00	
	Examiner	2,100 00	
	Examiners, 2 at $1,950	3,900 00	
	Examiner	1,800 00	
	Examiner	1,650 00	
	Examiner	1,350 00	
	Examiner of Accounts of Institutions	3,000 00	
	Examiner of Accounts of Institutions	1,650 00	
	Examiners of Accounts of Institutions, 4 at $1,500	6,000 00	
	Examining Inspector	1,350 00	
	Examining Inspector	1,200 00	
	Stenographers and Typewriters, 2 at $1,650.	3,300 00	
	Stenographers and Typewriters, 2 at $1,500.	3,000 00	
	Stenographers and Typewriters, 2 at $1,350.	2,700 00	
	Stenographer and Typewriter	1,200 00	
	Stenographers and Typewriters, 2 at $1,050.	2,100 00	
	Stenographer and Typewriter	900 00	
	Stenographer and Typewriter	750 00	
	Bank Messengers, 2 at $1,350	2,700 00	
	Bank Messenger	1,200 00	
	Messenger	1,350 00	
	Messenger	900 00	
	Telephone Operator	1,200 00	
	Telephone Operators, 2 at $1,050	2,100 00	
	Bookbinder Foreman	1,500 00	
	Bookbinder	1,200 00	
	Auto Engineman	1,500 00	
	Auto Enginemen, 2 at $1,200	2,400 00	
	Janitor	1,050 00	
	Watchman	900 00	
	Cleaner	540 00	
	Bookkeeper	3,500 00	
	Bookkeeper	3,000 00	
	Bookkeeper	2,700 00	
	Bookkeeper	2,550 00	
	Bookkeeper	2,400 00	
	Bookkeeper	2,250 00	
	Bookkeepers, 3 at $1,950	5,850 00	
	Bookkeeper	1,800 00	
	Bookkeepers, 2 at $1,650	3,300 00	
	Bookkeepers, 3 at $1,500	4,500 00	
	Bookkeepers, 9 at $1,350	12,150 00	
	Salaries—		
	Bookkeepers, 8 at $1,200	9,600 00	
	Statistician	1,650 00	
	Cashier	2,100 00	
	Cashier	1,800 00	
	Cashier	1,500 00	
	Security Deposit Clerk	1,800 00	
	Financial Clerk	1,650 00	
	Financial Clerks, 2 at $1,500	3,000 00	
	Financial Clerks, 4 at $1,350	5,400 00	
	Financial Clerks, 4 at $1,200	4,800 00	
	Financial Clerk	1,050 00	
	Financial Clerk	900 00	
	Stock and Bond Clerks, 4 at $2,100	8,400 00	
	Stock and Bond Clerk	1,950 00	
	Typewriter Accountants, 2 at $1,200	2,400 00	
	Topographical Draftsman	1,350 00	
		$397,200 00	
26	General Supplies	20,000 00	
27	Contingencies	35,000 00	
			452,200 00
28	General Supplies, Division of Bookkeeping		5,000 00
29	Telephone Service		6,000 00
30	Special Contract Obligations		5,000 00
31	Maintenance of Automobiles, including Equipment, Care and Storage.		10,000 00

AUDITING BUREAU.

32	Salaries—		
	Auditors of Accounts, 2 at $6,000	$12,000 00	
	Auditor of Accounts	5,000 00	
	Auditors of Accounts, 5 at $4,000	20,000 00	
	Auditors of Accounts, 2 at $3,500	7,000 00	
	Auditors of Accounts, 12 at $3,000	36,000 00	
	Deputy Auditors of Accounts, 3 at $2,500	7,500 00	
	Expert Accountant	2,500 00	
	City Paymaster	6,000 00	
	Deputy City Paymasters, 8 at $2,500	20,000 00	
	Clerk	4,500 00	
	Clerk	2,400 00	
	Clerks, 3 at $2,100	6,300 00	
	Clerks, 2 at $1,950	3,900 00	
	Clerks, 7 at $1,650	11,550 00	
	Clerks, 6 at $1,500	9,000 00	
	Clerks, 3 at $1,350	4,050 00	
	Clerks, 6 at $1,200	7,200 00	
	Clerks, 8 at $1,050	8,400 00	
	Clerks, 5 at $900	4,500 00	
	Clerks, 6 at $750	4,500 00	
	Junior Clerk	600 00	
	Junior Clerks, 9 at $540	4,860 00	
	Junior Clerks, 3 at $480	1,440 00	
	Office Boys, 2 at $300	600 00	
	Clerk (with a knowledge as Cataloguer)	750 00	
	Law Clerk	2,600 00	
	Law Clerk	1,800 00	
	Law Clerks, 2 at $1,650	3,300 00	
	Law Clerk	1,500 00	
	Law Clerk	1,200 00	
	Financial Clerk	2,100 00	
	Financial Clerk	1,950 00	
	Financial Clerks, 5 at $1,800	9,000 00	
	Financial Clerks, 3 at $1,650	4,950 00	
	Financial Clerks, 2 at $1,500	3,000 00	
	Financial Clerks, 8 at $1,350	10,800 00	
	Financial Clerks, 3 at $1,200	3,600 00	
	Financial Clerk	1,050 00	
	Financial Clerks, 2 at $900	1,800 00	
	Disbursing Clerk	2,800 00	
	Stenographer and Typewriter	1,500 00	
	Stenographers and Typewriters, 5 at $1,350	6,750 00	
	Stenographers and Typewriters, 5 at $1,200	6,000 00	
	Stenographers and Typewriters, 2 at $1,050	2,100 00	
	Stenographer and Typewriter	750 00	
	Stenographer and Book Typewriter	750 00	
	Typewriting Copyist	1,050 00	
	Typewriting Copyist	750 00	
	Bank Messengers, 3 at $1,200	3,600 00	
	Messengers, 4 at $1,350	5,400 00	
	Messenger	1,200 00	
	Extra Messenger	1,050 00	
	Examiner	5,000 00	
	Examiners, 2 at $2,550	5,100 00	
	Examiners, 2 at $2,250	4,500 00	
	Examiners, 8 at $2,100	16,800 00	
	Examiner	1,950 00	
	Examiners, 7 at $1,800	12,600 00	
	Examiners, 8 at $1,650	13,200 00	
	Examiners, 8 at $1,500	12,000 00	
	Examiner	1,350 00	
	Examiner	1,200 00	
	Examiners, 2 at $1,050	2,100 00	
	Medical Examiner	2,500 00	
	Examining Inspectors, 4 at $1,650	6,600 00	
	Examining Inspectors, 10 at $1,500	15,000 00	
	Examining Inspectors, 2 at $1,350	2,700 00	
	Inspector of Repairs and Supplies	2,550 00	
	Inspectors of Repairs and Supplies, 3 at $1,800	5,400 00	
	Inspector of Repairs and Supplies	1,650 00	
	Inspectors of Repairs and Supplies, 4 at $1,500	6,000 00	
	Inspector of Repairs and Supplies	1,350 00	

	Salaries—			
	Inspectors of Repairs and Supplies, 15 at $1,200	18,000 00		
	Inspector	1,500 00		
	Inspector of Regulating, Grading and Paving	1,650 00		
	Inspectors of Regulating, Grading and Paving, 2 at $1,500	3,000 00		
	Inspector of Regulating, Grading and Paving	1,350 00		
	Inspector of Regulating, Grading and Paving	1,200 00		
	Inspector of Sewer Construction	1,500 00		
	Inspector of Sewer Construction	1,350 00		
	Inspector of Sewers	1,800 00		
	Veterinarian	2,100 00		
	Chemist	2,500 00		
	Laborer	1,200 00		
	Principal Assistant Engineer	6,000 00		
	Assistant Engineers, 6 at $3,000	18,000 00		
	Assistant Engineers, 3 at $2,400	7,200 00		
	Assistant Engineers, 5 at $2,100	10,500 00		
	Assistant Engineers, 2 at $1,800	3,600 00		
	Transitmen and Computers, 2 at $1,500	3,000 00		
	Watchmen, 3 at $900	2,700 00		
	Topographical Draftsman	1,200 00		
	Bookkeeper	1,200 00		
	Cashier	2,100 00		
			485,100 00	
33.	Contingencies, Division of Inspection		10,000 00	
34	Contingencies, Division of City Paymaster		3,000 00	
	BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS.			
35	Salaries—			
	Supervising Statistician and Examiner	$6,000 00		
	Expert Accountants, 4 at $4,000	16,000 00		
	Expert Accountants, 2 at $3,500	7,000 00		
	Examiner	5,000 00		
	Examiner	3,500 00		
	Examiners, 2 at $3,000	6,000 00		
	Examiner	2,550 00		
	Examiner	2,250 00		
	Clerk	2,100 00		
	Clerk	1,650 00		
	Clerk	1,500 00		
	Clerks, 2 at $1,200	2,400 00		
	Clerk	1,050 00		
	Junior Clerks, 2 at $480	960 00		
	Office Boys, 2 at $300	600 00		
	Clerk (with knowledge of statistics)	1,500 00		
	Stenographers and Typewriters, 2 at $1,350	2,700 00		
	Stenographer and Typewriter	1,200 00		
	Topographical Draftsman	1,500 00		
			$65,460 00	
36.	General Supplies		10,000 00	
				75,460 00
	BUREAU FOR THE COLLECTION OF CITY REVENUE AND MARKETS.			
37	Salaries—			
	Collector of City Revenue	$4,000 00		
	Deputy Collector of City Revenue	2,500 00		
	Deputy Superintendent of Markets	3,000 00		
	Clerk	2,100 00		
	Clerks, 2 at $1,200	2,400 00		
	Collection Clerk	1,650 00		
	Collection Clerks, 2 at $1,500	3,000 00		
	Collection Clerks, 3 at $1,350	4,050 00		
	Office Boy	300 00		
	Bookkeeper	1,650 00		
	Bookkeeper	1,500 00		
	Cashier	2,100 00		
	Cashier	1,650 00		
	Examiner	2,100 00		
	Stenographer and Typewriter	1,050 00		
			33,050 00	
	BUREAU FOR THE COLLECTION OF TAXES.			
38	Salaries—			
	Receiver of Taxes	$7,000 00		
	Deputy Receivers of Taxes, 2 at $4,000	8,000 00		
	Deputy Receivers of Taxes, 2 at $3,750	7,500 00		
	Deputy Receivers of Taxes, 4 at $2,500	10,000 00		
	Deputy Receivers of Taxes, 2 at $2,100	4,200 00		
	Bookkeeper	2,250 00		
	Bookkeeper	1,800 00		
	Cashiers, 2 at $2,500	5,000 00		
	Cashiers, 5 at $2,100	10,500 00		
	Cashiers, 2 at $1,800	3,600 00		
	Cashiers, 2 at $1,650	3,300 00		
	Cashier	1,500 00		
	Cashiers, 4 at $1,350	5,400 00		
	Cashiers, 2 at $1,200	2,400 00		
	Clerk	2,400 00		
	Clerks, 4 at $1,950	7,800 00		
	Clerk	1,800 00		
	Clerks, 8 at $1,650	13,200 00		
	Clerks, 15 at $1,500	22,500 00		
	Clerks, 11 at $1,350	14,850 00		
	Clerks, 12 at $1,200	14,400 00		
	Clerks, 9 at $1,050	9,450 00		
	Clerks, 8 at $900	7,200 00		
	Junior Clerks, 3 at $750	2,250 00		
	Junior Clerks, 5 at $540	2,700 00		
	Junior Clerk	480 00		
	Clerk with knowledge of stenography	1,500 00		
	Clerk with knowledge of handwriting	1,050 00		
	Salaries—			
	Financial Clerk	2,550 00		
	Financial Clerk	1,950 00		
	Financial Clerk	1,800 00		
	Financial Clerk	1,650 00		
	Financial Clerks, 2 at $1,500	3,000 00		
	Financial Clerk	1,350 00		
	Bank Messenger	1,200 00		
	Messenger	1,350 00		
	Messengers, 2 at $1,200	2,400 00		
	Messengers, 2 at $1,050	2,100 00		
	Bookbinders, 3 at $1,200	3,600 00		
	Stenographer and Typewriter	1,200 00		
	Stenographer and Typewriter	900 00		
				199,080 00
39	For the employment of Temporary Clerks, All Boroughs			33,000 00
	BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS.			
40	Salaries—			
	Collector of Assessments and Arrears	$4,500 00		
	Deputy Collector of Assessments and Arrears	4,000 00		
	Deputy Collector of Assessments and Arrears	3,500 00		
	Deputy Collector of Assessments and Arrears	2,250 00		
	Deputy Collectors of Assessments and Arrears, 2 at $2,000	4,000 00		
	Bookkeeper	2,400 00		
	Bookkeeper	1,800 00		
	Bookkeepers, 5 at $1,350	6,750 00		
	Bookkeeper	1,200 00		
	Bookkeeper	1,050 00		
	Accountant	1,800 00		
	Accountants, 2 at $1,500	3,000 00		
	Examiner	2,700 00		
	Examiner	1,650 00		
	Cashier	1,800 00		
	Cashiers, 2 at $1,500	3,000 00		
	Cashier	1,350 00		
	Cashier	1,200 00		
	Clerk	2,400 00		
	Clerk	2,100 00		
	Clerks, 2 at $1,950	3,900 00		
	Clerks, 2 at $1,800	3,600 00		
	Clerks, 4 at $1,650	6,600 00		
	Clerks, 10 at $1,500	15,000 00		
	Clerks, 12 at $1,350	16,200 00		
	Clerks, 9 at $1,200	10,800 00		
	Clerks, 34 at $1,050	35,700 00		
	Clerks, 2 at $900	1,800 00		
	Clerks, 2 at $750	1,500 00		
	Junior Clerks, 2 at $600	1,200 00		
	Financial Clerk	1,650 00		
	Financial Clerk	1,050 00		
	Financial Clerks, 2 at $900	1,800 00		
	Office Boys, 2 at $300	600 00		
	Bookbinder	1,350 00		
	Bookbinders, 3 at $1,200	3,600 00		
	Bank Messenger	1,350 00		
	Bank Messengers, 2 at $1,200	2,400 00		
	Stenographer and Typewriter	1,200 00		
			$163,750 00	
41	General Supplies		5,000 00	
				168,750 00
	THE CHAMBERLAIN.			
42	Salaries—			
	Chamberlain	$12,000 00		
	Deputy Chamberlain	5,000 00		
	Bookkeepers, 2 at $2,850	5,700 00		
	Bookkeeper	2,000 00		
	Bookkeeper	1,950 00		
	Bookkeeper	1,800 00		
	Clerks, 2 at $1,500	3,000 00		
	Clerk	1,350 00		
	Clerks, 3 at $1,200	3,600 00		
	Clerk	1,050 00		
	Clerks, 2 at $750	1,500 00		
	Stenographer	1,200 00		
	Secretary	2,000 00		
	Warrant Clerk	2,500 00		
	Warrant Clerk	1,650 00		
	Warrant Clerk	1,500 00		
	Warrant Clerk	1,350 00		
	Bank Messengers, 2 at $1,200	2,400 00		
	Examiner of Coupons, etc	1,000 00		
			52,550 00	
43	General Supplies		1,350 00	
44	Contingencies		300 00	
45	Telephone Service		350 00	
				54,550 00
				1,555,190 00
	INTEREST ON THE CITY DEBT.			
46	The City of New York		$19,788,776 53	
47	The City of New York, as constituted prior to January 1, 1898		2,759,410 29	
48	The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898		2,143,258 20	

49	Corporations in Queens County	390,214 91	
50	Corporations in Richmond County	97,100 56	
51	Interest on Bonds and Stock to be issued in 1909 after September 30, and in 1910	2,000,000 00	
52	Interest on Revenue Bonds	5,000,000 00	
			$32,178,760 49

REDEMPTION OF THE CITY DEBT.

53	The City of New York	$5,500,000 00	
54	The City of New York, as constituted prior to January 1, 1898	20,133 20	
55	The City of Brooklyn, Kings County and Towns, as constituted prior to January 1, 1898	1,204,000 00	
56	Corporations in Queens County	296,640 48	
57	Corporations in Richmond County	83,546 71	
			7,104,320 39

INSTALLMENTS PAYABLE IN 1910.

58	The City of New York (General)	$4,917,486 19	
59	The City of New York (Water Bonds)	1,264,193 67	
60	The City of New York, as constituted prior to January 1, 1898 (Water Bonds)	579,224 60	
61	The City of Brooklyn, as constituted prior to January 1, 1898	397,593 71	
62	Long Island City	2,116 67	
			7,160,614 84
			46,443,695 72

LAW DEPARTMENT.

63	Salaries and Wages—		
	Corporation Counsel	$15,000 00	
	Assistant (First)	12,000 00	
	Assistants, 3 at $10,000	30,000 00	
	Assistants, 6 at $7,500	45,000 00	
	Assistants, 2 at $7,000	14,000 00	
	Assistants, 3 at $6,500	19,500 00	
	Assistants, 2 at $6,000	12,000 00	
	Assistants, 8 at $5,500	44,000 00	
	Assistants, 6 at $5,000	30,000 00	
	Assistants, 4 at $4,500	18,000 00	
	Assistants, 3 at $4,000	12,000 00	
	Assistants, 9 at $3,500	31,500 00	
	Assistants, 18 at $3,000	54,000 00	
	Deputy Assistants, 5 at $2,850	14,250 00	
	Deputy Assistants, 6 at $2,550	15,300 00	
	Deputy Assistant	2,400 00	
	Junior Assistants, 6 at $2,100	12,600 00	
	Junior Assistants, 3 at $1,950	5,850 00	
	Junior Assistants, 5 at $1,800	9,000 00	
	Junior Assistants, 4 at $1,650	6,600 00	
	Junior Assistants, 4 at $1,500	6,000 00	
	Law Clerk	3,000 00	
	Law Clerk	2,400 00	
	Law Clerk	3,000 00	
	Law Clerk	2,400 00	
	Law Clerk	1,800 00	
	Law Clerk	1,500 00	
	Law Clerk	1,350 00	
	Law Clerks, 2 at $1,050	2,100 00	
	Secretary to Corporation Counsel	3,500 00	
	Stenographer to Corporation Counsel	1,500 00	
	Attendant to Corporation Counsel	1,600 00	
	Attendant to Assistant Corporation Counsel (Brooklyn)	1,350 00	
	Librarian	2,800 00	
	Chief Clerk	5,000 00	
	Assistant Chief Clerk	4,500 00	
	Clerk	4,000 00	
	Clerk	3,600 00	
	Clerks, 2 at $2,400	4,800 00	
	Clerks, 3 at $2,100	6,300 00	
	Clerks, 2 at $1,800	3,600 00	
	Clerks, 4 at $1,500	6,000 00	
	Clerks, 2 at $1,200	2,400 00	
	Clerks, 5 at $1,050	5,250 00	
	Clerks, 6 at $900	5,400 00	
	Clerks, 6 at $750	4,500 00	
	Clerks or Junior Clerks, 14 at $600	8,400 00	
	Clerks or Junior Clerks, 22 at $480	10,560 00	
	Clerks or Office Boys, 17 at $300	5,100 00	
	Stenographers and Typewriters, 2 at $1,500	3,000 00	
	Stenographers and Typewriters, 20 at $1,200	24,000 00	
	Stenographers and Typewriters, 14 at $1,050	14,700 00	
	Stenographers and Typewriters, 12 at $900	10,800 00	
	Stenographers and Typewriters, 9 at $750	6,750 00	
	Typewriting Copyists, 4 at $1,200	4,800 00	
	Typewriting Copyists, 6 at $1,050	6,300 00	
	Typewriting Copyists, 6 at $900	5,400 00	
	Typewriting Copyists, 3 at $750	2,250 00	
	Telephone Switchboard Operator	900 00	
	Telephone Switchboard Operators, 2 at $750	1,500 00	
	Telephone Switchboard Operators, 2 at $600	1,200 00	
	Examiner	2,400 00	
	Examiners, 2 at $1,200	2,400 00	
	Messengers, 3 at $1,200	3,600 00	
	Messenger	1,050 00	
	Process Servers, 9 at $1,200	10,800 00	
	Process Servers, 5 at $1,050	5,250 00	
	Process Servers, 30, paid $1.15 for each summons served	15,000 00	
			$633,410 00
64	General Supplies		7,500 00
65	Telephone Service		7,500 00
66	Contingencies		107,500 00
67	Contingent Counsel Fees, including Deficiencies		15,000 00
68	Fees of Expert Witnesses and Disbursements in Proceedings to Review Assessments for Taxation, including Deficiencies		37,500 00
69	Expenses in Connection with Actions and Proceedings Brought by or Against Gas and Electric Light Companies and Other Public Utility Corporations, including Deficiencies		15,000 00
70	For Compensation and Expenses of Counsel and Experts in Proceedings for Review of Assessments of Special Franchises Made by the State Board of Tax Commissioners, Pursuant to Chapter 155, Laws of 1906		20,000 00
			843,410 00

DEPARTMENT OF BRIDGES.

GENERAL ADMINISTRATION.

71	Salaries—		
	Commissioner	$7,500 00	
	Chief Engineer	10,000 00	
	Deputy Commissioner	4,500 00	
	Principal Assistant Engineer	4,500 00	
	Secretary to Commissioner	4,000 00	
	Chief Clerk	3,000 00	
	Bookkeeper	2,700 00	
	Auditor	2,700 00	
	Clerks, 2 at $1,950 each	3,900 00	
	Stenographers and Typewriters, 3 at $1,500 each	4,500 00	
	Messengers, 2 at $1,500 each	3,000 00	
	Messenger	1,200 00	
	Photographer	1,200 00	
	Automobile Engineman	1,500 00	
	Automobile Enginemen, 2 at $1,200	2,400 00	
	Telephone Operator	750 00	
			$57,350 00
72	General Supplies		1,000 00
73	Purchase of Furniture and Fittings		350 00
74	Maintenance of Automobiles, including Equipment, Care and Storage		4,000 00
75	Telephone Service		3,500 00
76	Contingencies		1,000 00
			$67,200 00

BRIDGES OVER THE HARLEM RIVER AND IN THE BOROUGH OF MANHATTAN.

77	Salaries—		
	Assistant Engineer	$5,000 00	
	Assistant Engineer	2,400 00	
	Clerk	1,500 00	
	Messenger	1,200 00	
	Foreman Laborer	2,150 00	
	Foremen Laborers, 4 at $1,500 each	6,000 00	
	Foremen Laborers, 3 at $1,200 each	3,600 00	
	Foreman Bridge Mechanic	1,500 00	
	Foreman Carpenter	1,500 00	
	Foreman Painter	1,500 00	
	Bridge Keepers, 6 at $900 each	5,400 00	
	Bridge Tenders, 69 at $900 each	62,100 00	
			$93,850 00
78	Wages—		
	Enginemen, not to exceed $4.50 per day	$35,154 00	
	Stokers, not to exceed $3 per day	20,088 00	
	Oilers, not to exceed $3 per day	2,190 00	
	Bridge Mechanics, not to exceed $4.80 per day	16,473 60	
	Machinist, not to exceed $4.50 per day	1,287 00	
	Blacksmith, not to exceed $4.50 per day	1,287 00	
	Carpenters, not to exceed $5 per day	5,720 00	
	Ship Carpenter, not to exceed $5 per day	1,430 00	
	Cabinetmaker, not to exceed $4 per day	1,144 00	
	Wiremen, not to exceed $4.50 per day	3,285 00	
	Linemen, not to exceed $4.50 per day	3,285 00	
	Painters, not to exceed $4 per day	24,024 00	
	Machinists' Helpers	2,574 00	
	Mechanics' Helper	858 00	
	Blacksmiths' Helper	858 00	
	Drivers	3,800 00	
	Laborers	26,600 00	
			150,057 60
79	General Supplies		4,200 00
80	Materials for Repairs and Replacements by Departmental Labor		17,500 00
81	Repairs and Replacements by Contract or Open Order		24,500 00
82	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,250 00
83	Forage, Shoeing and Boarding Horses		2,610 00
84	Fuel		9,000 00
85	Emergency Snow Removal		6,000 00
86	Contingencies		347 00
			309,314 60

BRIDGES OVER NEWTOWN CREEK AND IN THE BOROUGH OF QUEENS.

87	Salaries—		
	Assistant Engineer	$5,000 00	
	Clerk	2,250 00	
	General Foreman	2,000 00	
	Foreman Laborer	1,500 00	
	Foreman Painter and Rigger	1,800 00	
	Foremen Bridge Tenders, 5 at $900 each	4,500 00	
	Bridge Keepers, 4 at $1,200 each	4,800 00	
	Bridge Tenders, 50 at $900 each	45,000 00	
	Bridge Tenders, 3 at $900 each (6 months)	1,350 00	
			$68,200 00

88	Wages—			
	Enginemen, not to exceed $4.50 per day..	$3,348 00		
	Machinists, not to exceed $4.50 per day..	4,216 50		
	Bridge Mechanics, not to exceed $4.80 per day	2,995 20		
	Riveters, not to exceed $4.80 per day....	2,745 60		
	Assistant Foreman Carpenter, not to exceed $5 per day	1,430 00		
	Carpenter, not to exceed $5 per day.....	1,430 00		
	Ship Carpenters, not to exceed $5 per day.	4,290 00		
	Painters, not to exceed $4 per day.....	6,864 00		
	Inspector (Electrical).....	1,642 50		
	Machinists' Helper	858 00		
	Laborers	4,768 50		
			34,588 30	
89	General Supplies		1,325 00	
90	Materials for Repairs and Replacements by Departmental Labor		4,900 00	
91	Repairs and Replacements by Contract or Open Order.		5,400 00	
92	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....		100 00	
93	Forage, Shoeing and Boarding Horses.....		500 00	
94	Hired Teams, Horses and Carts.....		900 00	
95	Fuel		150 00	
96	Emergency Snow Removal.....		1,500 00	
97	Contingencies		600 00	
				118,163 30

BRIDGES IN THE BOROUGHS OF BROOKLYN AND RICHMOND.

98	Salaries—			
	Assistant Engineer	$3,000 00		
	Chief Clerk	2,550 00		
	General Foreman	2,000 00		
	Foreman Riveter	1,800 00		
	Foreman Bridge Tender.....	900 00		
	Bridge Keepers, 9 at $1,200 each.....	10,800 00		
	Bridge Keeper	1,095 00		
	Bridge Keepers, 3 at $900 each.....	2,700 00		
	Bridge Keeper	600 00		
	Bridge Tenders, 28 at $900 each.....	25,200 00		
	Bridge Tender	600 00		
			$51,245 00	
99	Wages—			
	Enginemen, not to exceed $4.50 per day..	$5,022 00		
	Oiler, not to exceed $3 per day.....	1,095 00		
	Linemen, not to exceed $4.50 per day.....	1,642 50		
	Bridge Mechanics, not to exceed $4.80 per day	1,752 00		
			9,511 50	
100	General Supplies		865 00	
101	Materials for Repairs and Replacements by Departmental Labor		4,750 00	
102	Repairs and Replacements by Contract or Open Order.		14,500 00	
103	Maintenance of Automobiles, including Equipment, Care and Storage		800 00	
104	Fuel		150 00	
105	Contingencies		625 00	
				82,446 50

BRIDGES IN THE BOROUGH OF THE BRONX.

106	Salaries—			
	Assistant Engineer	$3,500 00		
	General Foreman	1,500 00		
	Foreman Laborer	1,500 00		
	Bridge Tenders, 23 at $900 each.....	20,700 00		
			$27,200 00	
107	Wages—			
	Riveter, not to exceed $4.80 per day.....	$1,372 80		
	Carpenter, not to exceed $5 per day.....	1,430 00		
	Lineman, not to exceed $4.50 per day....	1,287 00		
	Painter, not ot exceed $4 per day.....	1,144 00		
	Laborers	8,212 50		
			13,446 30	
108	General Supplies		600 00	
109	Materials for Repairs and Replacements by Departmental Labor		3,500 00	
110	Repairs and Replacements by Contract or Open Order.		4,410 00	
111	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....		150 00	
112	Maintenance of Automobiles, including Equipment, Care and Storage		500 00	
113	Forage, Shoeing and Boarding Horses.....		350 00	
114	Hired Teams, Horses and Carts.....		192 00	
115	Fuel		200 00	
116	Contingencies		870 00	
				51,418 30

QUEENSBORO BRIDGE.

117	Salaries—			
	Engineer in Charge	$5,000 00		
	Assistant Engineer	3,500 00		
	Transitman	1,800 00		
	Storekeeper	1,200 00		
	Structural Steel Draftsman.....	1,800 00		
	Foreman Painter	1,800 00		
	Foreman Carpenter	1,800 00		
	Foreman Riveter	1,800 00		
	Foremen Laborers, 2 at $1,800 each.....	3,600 00		
	Steel Inspectors, 2 at $1,650 each.....	3,300 00		
	Clerk	1,500 00		
	Stenographer and Typewriter.....	1,200 00		
	Messenger	1,200 00		
	Bridge Keepers, 6 at $900 each.....	5,400 00		
	Salaries—			
	Bridge Keepers, 9 at $1,095 each.....	9,855 00		
	Bridge Tenders, 4 at $900 each.....	3,600 00		
	Rodman	1,050 00		
	Telephone Operator	750 00		
			$50,155 00	
118	Wages—			
	Carpenters, not to exceed $5 per day.....	$5,720 00		
	Riveters, not to exceed $4.80 per day....	15,100 80		
	Wiremen, not to exceed $4.50 per day....	3,285 00		
	Blacksmith, not to exceed $4.50 per day..	1,287 00		
	Painters, not to exceed $4 per day.....	11,440 00		
	Blacksmith's Helper, not to exceed $3 per day	858 00		
	Elevator Attendants	5,018 75		
	Watchmen	4,380 00		
	Cleaners	2,920 00		
	Laborers	26,600 00		
			76,609 55	
119	General Supplies		2,415 00	
120	Purchase of Furniture and Fittings.....		500 00	
121	Fuel		500 00	
122	Materials for Repairs and Replacements by Departmental Labor		10,800 00	
123	Repairs and Replacements by Contract or Open Order.		15,000 00	
124	Maintenance of Automobiles, including Equipment, Care and Storage		800 00	
125	Hired Teams, Horses and Carts.....		9,120 00	
126	Emergency Snow Removal.....		8,000 00	
127	Contingencies		500 00	
				174,399 55

MANHATTAN BRIDGE.

128	Salaries—			
	Foremen Laborers, 2 at $1,800 each.....	$3,600 00		
	Bridge Keepers, 9 at $1,095 each.....	9,855 00		
	Bridge Keepers, 6 at $900 each.....	5,400 00		
			$18,855 00	
129	Wages—			
	Watchmen	$4,380 00		
	Laborers	26,600 00		
			30,980 00	
130	General Supplies		2,500 00	
131	Materials for Repairs and Replacements by Departmental Labor		11,600 00	
132	Repairs and Replacements by Contract or Open Order.		2,500 00	
133	Hired Teams, Horses and Carts.....		4,864 00	
134	Fuel		600 00	
135	Emergency Snow Removal.....		6,000 00	
136	Contingencies		400 00	
			78,299 00	
				881,241 25

DEPARTMENT OF DOCKS AND FERRIES.

GENERAL ADMINISTRATION.

137	Salaries—			
	Commissioner	$7,500 00		
	Deputy Commissioner	4,500 00		
	Secretary to the Commissioner.....	2,000 00		
	Secretary	4,000 00		
	Assistant Secretary	3,600 00		
	Chief Clerk	4,000 00		
	Clerks, 3 at $2,100 each.....	6,300 00		
	Clerk	1,800 00		
	Clerk	1,050 00		
	Stenographers and Typewriters, 4 at $1,500 each	6,000 00		
	Collector	1,800 00		
	Messengers, 5 at $1,200 each.....	6,000 00		
	Enginemen (Locomobiles), 2 at $1,500 each	3,000 00		
			$51,550 00	
138	General Supplies		7,500 00	
139	Maintenance of Automobiles, including Equipment, Care and Storage.....		2,300 00	
140	Contingencies		650 00	
				$62,000 00

BUREAU OF ACCOUNTS.

141	Salaries—			
	Chief Clerk and Auditor.....	$5,000 00		
	Cashier	4,000 00		
	Clerks, 4 at $3,000 each.....	12,000 00		
	Clerk	2,400 00		
	Clerks, 2 at $2,100 each.....	4,200 00		
	Clerk	1,500 00		
	Clerks, 2 at $1,200 each.....	2,400 00		
	Clerks, 2 at $1,050 each.....	2,100 00		
	Collectors, 3 at $1,800 each.....	5,400 00		
			39,000 00	
142	General Supplies		2,500 00	
143	Contingencies		900 00	
				42,400 00

BUREAU OF ENGINEERING.

144	Salaries—			
	Foreman Dock Builder.....	$1,800 00		
	Inspectors of Dredging, 2 at $1,500 each..	3,000 00		
	Inspectors of Dredging, 2 at $1,200 each..	2,400 00		
	Engineers, Draftsmen, Clerks, etc., part time	2,600 00		
			9,800 00	

145	Wages—			
	Mechanical and Labor Force engaged on Repairs.....		180,000 00	
146	General Supplies		3,500 00	
147	Materials for Repairs and Replacements by Departmental Labor		150,000 00	
	Repairs and Replacements by Contract or Open Order—			
148	Repairs to Piers, Bulkheads and Slips..	$50,000 00		
149	Repairs to Recreation Structures.....	50,000 00		
150	Repairs to Pavements.....	30,000 00		
151	Dredging	80,000 00		
			210,000 00	
152	Hired Teams, Horses and Carts.....		3,000 00	
153	Contingencies		3,400 00	
				559,700 00

BUREAU OF SUPERINTENDENCE.

154	Salaries—			
	Superintendent of Docks	$5,000 00		
	Assistant Superintendents of Docks, 2 at $2,500 each	5,000 00		
	Clerk	2,100 00		
	Clerk	1,800 00		
	Clerk	1,500 00		
	Stenographer and Typewriter.....	1,200 00		
	Foreman Dock Laborer.....	1,800 00		
	Foreman Carpenter	1,800 00		
	Engineer (Pile Driver).....	1,500 00		
	Dock Masters, 21 at $2,100 each.....	44,100 00		
	Dock Masters, 4 at $1,800 each.....	7,200 00		
	Engineman (Locomobile)	1,500 00		
	Messengers, 2 at $1,200 each.....	2,400 00		
	Cleaners (Male), 2 at $900 each.....	1,800 00		
	Cleaners (Female), 7 at $540 each.....	3,780 00		
	Attendants (Male), 4 at $900 each.....	3,600 00		
	Attendants (Male), 41 at $75 per month, 126 days	12,915 00		
	Attendants (Female), 38 at $50 per month, 126 days	7,980 00		
	Cleaners (Female), 27 at $45 per month, 126 days	5,103 00		
			112,078 00	
155	Wages—			
	Foremen Dock Laborers.....	$19,152 00		
	Dock Laborers	276,934 00		
	Engineer (Locomobile)	1,500 00		
	Stoker	1,080 00		
	Watchmen	16,060 00		
			314,726 00	
156	General Supplies		7,500 00	
157	Purchase of Furniture and Fittings.....		700 00	
158	Hired Teams, Horses and Carts.....		28,000 00	
159	Telephone Service		2,000 00	
160	Maintenance of Automobiles, including Equipment, Care and Storage		1,300 00	
161	Contingencies		2,450 00	
162	Removal of Snow and Incumbrances.....		2,500 00	
	Special Contract Obligations—			
163	Sprinkling	$7,000 00		
164	Music	34,344 00		
165	Electric Lighting	10,500 00		
			51,844 00	
				523,098 00

BUREAU OF FERRIES.

Administration.

166	Salaries—			
	Superintendent of Ferries....	$5,000 00		
	Assistant Superintendent of Ferries	3,000 00		
	Assistant Superintendents of Ferries, 4 at $2,500 each...	10,000 00		
	Mechanical Engineer	2,700 00		
	Mechanical Engineer	2,400 00		
	Clerk	3,000 00		
	Clerks, 2 at $1,800 each.....	3,600 00		
	Clerks, 5 at $1,200 each.....	6,000 00		
	Clerks, 2 at $1,050 each.....	2,100 00		
	Collectors, 2 at $1,800 each...	3,600 00		
	Messenger	1,200 00		
	Stenographer and Typewriter.	1,200 00		
	Stenographers and Typewriters, 2 at $1,000 each.....	2,000 00		
			$45,800 00	
167	General Supplies		4,500 00	
168	Telephone Service		2,500 00	
169	Contingencies		3,700 00	
				$56,500 00

Operation.

170	Salaries—			
	Supervising Marine Engineers, 2 at $2,500 each.....	$5,000 00		
	Clerk	1,500 00		
	Clerks, 6 at $900 each.....	5,400 00		
	Captains, 26 at $1,920 each...	49,920 00		
	Quartermasters, 26 at $1,200 each	31,200 00		
	Marine Engineers, 32 at $1,800 each	57,600 00		
	Marine Engineers, 32 at $1,650 each	52,800 00		
	Oilers, 49 at $1,140 each.....	55,860 00		
	Salaries—			
	Water Tenders, 49 at $1,140 each		55,860 00	
	Marine Stokers, 156 at $1,080 each		168,480 00	
	Mates, 26 at $900 each.....		23,400 00	
	Deckhands, 120 at $720 each.		86,400 00	
	Bridgemen, 36 at $720 each..		25,920 00	
	Doormen, 24 at $720 each....		17,280 00	
	Gatemen, 18 at $960 each....		17,280 00	
	Ticket Agents, 36 at $960 each		34,560 00	
	Ticket Choppers, 34 at $720 each		24,480 00	
	Dock Laborers, 14 at $660 each		9,240 00	
	Attendants (Female), 23 at $600 each.....		13,800 00	
	Cleaners (Female), 20 at $540 each		10,800 00	
				$746,780 00
171	Wages—			
	Stationary Engineers, not to exceed $4.50 per day.....	$22,932 00		
	Foremen Dock Laborers.....	16,748 00		
	Dock Laborers	61,334 00		
			101,014 00	
172	General Supplies		25,000 00	
173	Hired Teams, Horses and Carts.....		26,200 00	
174	Fuel		360,000 00	
175	Charter of Ferryboats.....		5,000 00	
176	Electric Light and Power.....		35,000 00	
				1,298,994 00

MAINTENANCE.

177	Wages—			
	Mechanical and Labor Force engaged on Repairs		$84,000 00	
178	Materials for Repairs and Replacements by Departmental Labor.....		42,000 00	
179	Repairs and Replacements by Contract or Open Order.....		100,000 00	
180	Insurance on Ferry Boats.....		53,240 00	
				279,240 00
				1,634,734 00
				2,821,932 00

TENEMENT HOUSE DEPARTMENT.

GENERAL ADMINISTRATION.

181	Salaries and Wages—			
	Commissioner		$7,500 00	
	Secretary to Commissioner.....		1,500 00	
	Stenographer to First Deputy.....		1,350 00	
	Registrar		3,000 00	
	Secretary to Department.....		2,500 00	
	Examiner		1,950 00	
	Clerks, 3 at $1,500.....		4,500 00	
	Clerk		1,200 00	
	Clerks, 2 at $600.....		1,200 00	
	Clerk		540 00	
	Clerk		480 00	
	Clerks, 3 at $300.....		900 00	
	Typewriter Copyist.....		900 00	
	Photographer		1,200 00	
	Stenographer and Typewriter.....		750 00	
				$29,470 00

ADMINISTRATION.

182	Salaries and Wages—			
	First Deputy Commissioner.....		$4,000 00	
	Second Deputy Commissioner.....		4,000 00	
	Superintendents, 2 at $3,000.....		6,000 00	
	Chief Inspectors, 2 at $3,000.....		6,000 00	
	Chief Inspectors, 3 at $2,550.....		7,650 00	
	Chief Inspector.....		2,100 00	
	Secretary to First Deputy.....		1,500 00	
	Secretary to Superintendent.....		1,500 00	
	Clerks, 9 at $1,500.....		13,500 00	
	Clerk		1,350 00	
	Clerks, 24 at $1,200.....		28,800 00	
	Clerks, 95 at $1,050.....		99,750 00	
	Clerks, 39 at $600.....		23,400 00	
	Clerks, 14 at $540.....		7,560 00	
	Clerks, 6 at $480.....		2,880 00	
	Clerks, 87 at $300.....		26,100 00	
	Plan Examiner.....		1,800 00	
	Plan Examiner.....		1,350 00	
	Plan Examiners, 18 at $1,200.....		21,600 00	
	Stenographer to Second Deputy.....		1,350 00	
	Stenographers and Typewriters, Book Typewriters and Typewriter Copyists, 6 at $1,050.....		6,300 00	
	Stenographers and Typewriters, Book Typewriters and Typewriter Copyists, 22 at $900.....		19,800 00	
	Stenographers and Typewriters, Book Typewriters and Typewriter Copyists, 113 at $750.....		84,750 00	
	Messenger		1,500 00	
	Messengers, 2 at $900.....		1,800 00	
	Process Servers, 12 at $900.....		10,800 00	
	Telephone Operator.....		900 00	
	Telephone Switchboard Operator.....		750 00	
	Cleaner		450 00	
	Cleaners, 5 at $360.....		1,800 00	
	Watchman, at $2.50 per day.....		912 50	
	Watchman, at $2 per day.....		730 00	
				392,682 50

DIVISION OF INSPECTION REVIEW.

183 Salaries and Wages—

Inspectors, 19 at $1,200	$22,800 00	
Inspectors, 4 at $1,650	6,600 00	
Inspectors, 5 at $1,800	9,000 00	
Inspectors, 2 at $1,500	3,000 00	
Inspectors, 7 at $1,350	9,450 00	
		50,850 00

DIVISION OF NEW BUILDINGS, COMPLAINTS AND INSPECTION OF PENDING VIOLATIONS, INSPECTION FORCE.

184 Salaries and Wages—

Inspectors, 2 at $1,800	$3,600 00	
Inspectors, 20 at $1,500	30,000 00	
Inspectors, 23 at $1,350	31,050 00	
Inspectors, 174 at $1,200	208,800 00	
Policemen, 15 at $1,400	21,000 00	
		294,450 00

DIVISION OF STRUCTURAL WORK.

185 Salaries and Wages—

Inspectors, 2 at $1,500	$3,000 00	
Inspectors, Field Work, 32 at $1,200	38,400 00	
		41,400 00
186 General Supplies		3,900 00
187 Contingencies		19,500 00
188 Telephone Service		850 00
		833,102 50

DEPARTMENT OF BELLEVUE AND ALLIED HOSPITALS.

GENERAL ADMINISTRATION.

189 Salaries and Wages—

General Medical Superintendent	$6,000 00	
Director of Laboratories	5,000 00	
General Superintendent, Training Schools	2,500 00	
Secretary to President	2,500 00	
Chief Bookkeeper	3,000 00	
Bookkeeper	1,200 00	
Contract Clerk	1,950 00	
Clerks, 2 at $900	1,800 00	
Clerk	720 00	
Clerks, 3 at $600	1,800 00	
Clerk	540 00	
Stenographer	1,200 00	
Stenographer	900 00	
Stenographers, 3 at $750	2,250 00	
Hospital Clerks, 2 at $720	1,440 00	
Hospital Clerk	600 00	
Hospital Clerk	540 00	
Supervising Engineer	2,000 00	
Plumber, not to exceed $5 per day	1,565 00	
Foreman of Drivers	900 00	
Hospital Helper	360 00	
		$38,765 00

BELLEVUE HOSPITAL—ADMINISTRATION.

190 Salaries and Wages—

Assistant Superintendent	$3,500 00	
Assistant Superintendent	1,800 00	
Chaplains, 4 at $450	1,800 00	
Expert Cataloguer	900 00	
Hospital Clerk	720 00	
Hospital Clerks, 3 at $600	1,800 00	
Hospital Clerks, 3 at $540	1,620 00	
Hospital Clerks, 5 at $480	2,400 00	
Orderly	720 00	
Hospital Helper	360 00	
Hospital Helper	300 00	
Hospital Helpers, 5 at $240	1,200 00	
		$17,120 00

BELLEVUE HOSPITAL—OPERATION AND MAINTENANCE.

191 Salaries and Wages—

Resident Physician	$3,500 00	
Resident Physician	1,500 00	
Assistant Alienists, 2 at $1,500	3,000 00	
Pathologists, 2 at $1,800	3,600 00	
Pathologist	1,500 00	
Admitting Physicians, 4 at $1,000	4,000 00	
Physicians to Out-Patients, 3 at $600	1,800 00	
Physicians to Out-Patients, 5 at $300	1,500 00	
X-Ray Photographer	1,800 00	
Apothecary	1,200 00	
Apothecaries, 2 at $900	1,800 00	
Apothecary	750 00	
Stenographers, 2 at $900	1,800 00	
Clerk	600 00	
Clerk	480 00	
Hospital Clerk (Storekeeper)	720 00	
Hospital Clerk	600 00	
Hospital Clerk	540 00	
Hospital Clerk	480 00	
Interpreter	1,000 00	
Inspectors, 2 at $720	1,440 00	
Superintendent of Training School	1,800 00	
Superintendent of Training School	1,200 00	
Trained Nurses	43,120 00	
Post-Graduate Nurses	10,500 00	
Pupil Nurses	18,168 00	
Head Pupil Nurse	360 00	
Medical Bath Attendant	480 00	
Housekeeper	800 00	
Salaries and Wages—		
Housekeeper	720 00	
Housekeepers, 3 at $600	1,800 00	
Orderlies, 2 at $480	960 00	
Orderly	390 00	
Orderly	360 00	
Seamstress	312 00	
Seamstresses, 5 at $288	1,440 00	
Barber	240 00	
Cook	900 00	
Cook	480 00	
Cook	420 00	
Cooks, 2 at $360	720 00	
Cooks, 4 at $300	1,200 00	
Cooks, 2 at $240	480 00	
Waitresses, 2 at $300	600 00	
Waitresses, 10 at $240	2,400 00	
Waitress	216 00	
Waitresses, 4 at $180	720 00	
Waiter	300 00	
Waiters, 2 at $240	480 00	
Butcher	720 00	
Supervisor	720 00	
Gatemen, 2 at $500	1,000 00	
Watchmen, 2 at $720	1,440 00	
Laundry Manager	1,200 00	
Laundryman	480 00	
Laundryman	300 00	
Laundrymen, 9 at $240	2,160 00	
Laundress	360 00	
Laundress	300 00	
Laundresses, 10 at $240	2,400 00	
Laundresses, 21 at $180	3,780 00	
Stationary Engineers, not to exceed $4.50 per day	6,570 00	
Firemen, not to exceed $3 per day	7,665 00	
Automobile Enginemen, 2 at $1,200	2,400 00	
Drivers, 5 at $600	3,000 00	
Hospital Helper	720 00	
Hospital Helpers—Mechanics, 2 at $720	1,440 00	
Hospital Helpers—Mechanics, 5 at $600	3,000 00	
Hospital Helpers—Mechanics, 2 at $480	960 00	
Hospital Helper—Mechanic	360 00	
Hospital Helpers, 4 at $480	1,920 00	
Hospital Helpers, 3 at 420	1,260 00	
Hospital Helpers, 14 at $360	5,040 00	
Hospital Helpers, 26 at $300	7,800 00	
Hospital Helpers, 152 at $240	36,480 00	
Hospital Helpers, 103 at $180	18,540 00	
Hospital Helper (Caretaker)	420 00	
		237,611 00

BELLEVUE HOSPITAL—NURSES' RESIDENCE.

192 Salaries and Wages—

Trained Nurse	$900 00	
Trained Nurse	720 00	
Trained Nurse	600 00	
Housekeepers, 2 at $600	1,200 00	
Seamstress	240 00	
Laundress	360 00	
Laundresses, 4 at $240	960 00	
Laundresses, 4 at $180	720 00	
Laundryman	300 00	
Cook	720 00	
Cook	420 00	
Waitress	300 00	
Waitress	240 00	
Waitresses, 4 at $216	864 00	
Waitress	180 00	
Hospital Helper	480 00	
Hospital Helper	360 00	
Hospital Helpers, 14 at $240	3,360 00	
Hospital Helpers, 4 at $216	864 00	
Hospital Helpers, 12 at $180	2,160 00	
		15,948 00
		270,679 00

GOUVERNEUR HOSPITAL—ADMINISTRATION.

193 Salaries and Wages—

Supervising Nurse	$1,200 00	
Hospital Clerks, 2 at $600	1,200 00	
Hospital Clerk	480 00	
Hospital Helper	300 00	
		$3,180 00

GOUVERNEUR HOSPITAL—OPERATION AND MAINTENANCE.

194 Salaries and Wages—

Apothecaries, 2 at $900	$1,800 00	
Hospital Clerks, 2 at $600	1,200 00	
Housekeeper	600 00	
Cook	720 00	
Cook	360 00	
Cook	300 00	
Cook	240 00	
Cooks, 2 at $192	384 00	
Waitresses, 3 at $216	648 00	
Trained Nurses	6,140 00	
Pupil Nurses	4,752 00	
Stationary Engineers, not to exceed $4.50 per day	4,927 50	
Firemen, not to exceed $3 per day	3,285 00	
Coal Passers, 3 at $2 a day	2,190 00	

	Salaries and Wages—			
	Drivers, 4 at $600	2,400 00		
	Laundryman	600 00		
	Laundryman	240 00		
	Laundress	360 00		
	Laundresses, 2 at $240	480 00		
	Laundresses, 4 at $180	720 00		
	Physicians to Out-patients, 2 at $600	1,200 00		
	Physicians to Out-patients, 24 at $300	7,200 00		
	Hospital Helpers—Mechanics, 4 at $600	2,400 00		
	Hospital Helper—Mechanic	480 00		
	Hospital Helpers, 4 at $360	1,440 00		
	Hospital Helpers, 8 at $300	2,400 00		
	Hospital Helpers, 36 at $240	8,640 00		
	Hospital Helpers, 12 at $180	2,160 00		
	Seamstress	240 00		
			58,506 50	
				61,686 50

HARLEM HOSPITAL—ADMINISTRATION.

195	Salaries and Wages—			
	Superintendent of Training School	$1,200 00		
	Supervising Nurse	1,200 00		
	Hospital Clerk	750 00		
	Hospital Clerk	600 00		
	Chaplain	450 00		
	Hospital Helper	360 00		
	Hospital Helper	300 00		
			$4,860 00	

HARLEM HOSPITAL—OPERATION AND MAINTENANCE.

196	Salaries and Wages—			
	X-Ray Photographer	$1,800 00		
	Apothecary	900 00		
	Apothecary	750 00		
	Physicians to Out-patients, 2 at $600	1,200 00		
	Physicians to Out-patients, 4 at $300	1,200 00		
	Trained Nurses	9,860 00		
	Post Graduate Nurses	6,600 00		
	Pupil Nurses	1,152 00		
	Housekeeper	600 00		
	Cook	720 00		
	Cooks, 2 at $360	720 00		
	Cook	180 00		
	Waitresses, 2 at $240	480 00		
	Waitresses, 2 at $180	360 00		
	Seamstresses, 2 at $240	480 00		
	Stationary Engineers, not to exceed $4.50 per day	4,927 50		
	Firemen, not to exceed $3 per day	3,285 00		
	Drivers, 4 at $600	2,400 00		
	Laundryman	600 00		
	Laundryman	240 00		
	Laundress	300 00		
	Laundresses, 4 at $240	960 00		
	Laundresses, 2 at $180	360 00		
	Hospital Clerks, 4 at $480	1,920 00		
	Hospital Helpers—Mechanics, 4 at $600	2,400 00		
	Hospital Helper—Mechanic	480 00		
	Hospital Helper	360 00		
	Hospital Helpers, 3 at $300	900 00		
	Hospital Helpers, 26 at $240	6,240 00		
	Hospital Helpers, 13 at $180	2,340 00		
			54,714 50	
				59,574 50

FORDHAM HOSPITAL—ADMINISTRATION.

197	Salaries and Wages—			
	Supervising Nurse	$1,200 00		
	Trained Nurse	800 00		
	Clerks, 2 at $600	1,200 00		
	Hospital Clerks, 4 at $480	1,440 00		
	Hospital Helpers, 2 at $300	600 00		
			$5,240 00	

FORDHAM HOSPITAL—OPERATION AND MAINTENANCE.

198	Salaries and Wages—			
	Apothecary	$900 00		
	Housekeeper	720 00		
	Trained Nurses	6,260 00		
	Post-Graduate Nurses	6,900 00		
	Pupil Nurses	1,056 00		
	Stationary Engineers, not to exceed $4.50 per day	4,927 50		
	Firemen, not to exceed $3 per day	3,285 00		
	Drivers, 2 at $600	1,200 00		
	Automobile Enginemen, 2 at $1,200	2,400 00		
	Cook	720 00		
	Cooks, 2 at $360	720 00		
	Cook	240 00		
	Waitress	300 00		
	Waitresses, 2 at $240	480 00		
	Waitress	216 00		
	Waitresses, 2 at $180	360 00		
	Laundryman	600 00		
	Laundryman	240 00		
	Laundresses, 2 at $300	600 00		
	Laundresses, 2 at $240	480 00		
	Laundress	216 00		
	Laundresses, 2 at $180	360 00		
	Seamstress	300 00		
	Hospital Helpers—Mechanics, 4 at $600	2,400 00		
	Hospital Helper—Mechanic	480 00		
	Hospital Helper	480 00		
	Salaries and Wages—			
	Hospital Helpers, 7 at $300	2,100 00		
	Hospital Helpers, 20 at $240	4,800 00		
	Hospital Helpers, 14 at $180	2,520 00		
			46,260 50	
				51,500 50
199	General Supplies			456,975 00
200	Materials for Repairs and Replacements by Departmental Labor			15,000 00
201	Repairs and Replacements by Contract or Open Order			42,940 00
202	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage			5,650 00
203	Purchase of Furniture and Fittings			11,650 00
204	Purchase of Automobile Ambulance			3,000 00
205	Maintenance of Automobile Ambulances, including Equipment, Care and Storage			1,500 00
206	Purchase of Horses			1,950 00
207	Forage, Shoeing and Boarding Horses			8,390 00
208	Contingencies			4,650 00
209	Fuel			87,650 00
210	Telephone Service			5,500 00
211	Special Contract Obligations			15,000 00
				1,142,060 50

DEPARTMENT OF CORRECTION.

GENERAL ADMINISTRATION, OFFICE OF THE COMMISSIONER.

212	Salaries and Wages—			
	Commissioner	$7,500 00		
	Deputy Commissioner	4,000 00		
	Secretary	3,000 00		
	Private Secretary	2,500 00		
	Clerk	1,800 00		
	Clerk	1,200 00		
	Clerk	800 00		
	Clerk	480 00		
	Telephone Operator	600 00		
			$21,880 00	

OFFICE OF THE GENETAL BOOKEEPER AND AUDITOR.

213	Salaries and Wages—			
	General Bookkeeper and Auditor	$3,600 00		
	Inspector	2,500 00		
	Purchasing Agent	1,800 00		
	Clerk	1,800 00		
	Clerk, Stenographer and Typewriter	1,800 00		
	Clerks, 2 at $800	1,600 00		
	Laundress	450 00		
	Cleaner	240 00		
			13,790 00	
214	General Supplies			445,665 50
215	Materials for Repairs and Replacements by Departmental Labor			23,000 00
216	Repairs and Replacements by Contract or Open Order			28,000 00
217	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage			7,000 00
218	Maintenance of Automobiles, including Equipment, Care and Storage			1,500 00
219	Purchase of Horses			2,500 00
220	Forage, Shoeing and Boarding Horses			16,500 00
221	Fuel			110,000 00
222	Telephone Service			6,000 00
223	Contingencies			4,600 00
224	Donations to Discharged Prisoners			5,000 00
225	Transportation of Insane Criminals			500 00
226	Manufacturing Supplies, Penitentiary			75,000 00
227	Manufacturing Supplies, Reformatory, Harts Island			10,000 00

ADMINISTRATION.

Central Office Stables.

228	Salaries and Wages—			
	Automobile Engineman	$1,200 00		
	Hostler	1,000 00		
	Hostler	900 00		
	Drivers, 8 at $1,000	8,000 00		
			11,100 00	

Storehouse.

229	Salaries and Wages—			
	General Storekeeper	$2,000 00		
	Clerk	900 00		
	Clerks, 5 at $480	2,400 00		
	Orderlies, 7 at $240	1,680 00		
			6,980 00	

Steamboats and Piers.

230	Salaries and Wages—			
	Pilots, 3 at $1,620	$4,860 00		
	Pilots, 3 at $1,400	4,200 00		
	Engineers, 2 at $1,500	3,000 00		
	Engineers, 3 at $1,350	4,050 00		
	Mates, 2 at $800	1,600 00		
	Mate	600 00		
	Hospital Helper	600 00		
	Deckhands, 17 at $480	8,160 00		
	Cooks, 2 at $480	960 00		
	Orderlies, 2 at $240	480 00		
	Fireman, not to exceed $3 a day	1,095 00		
	Stokers, not to exceed $3 a day	10,950 00		
			40,555 00	

ADMINISTRATION OF INSTITUTIONS.

District Prisons.

231	Salaries and Wages—			
	Warden	$2,500 00		
	Physician	1,500 00		
	Keepers, 39	42,200 00		

Salaries and Wages—

Driver	1,000 00	
Matron	700 00	
Matrons, 2 at $500	1,000 00	
Assistant Matrons, 3 at $400	1,200 00	
Attendant	300 00	
Orderlies, 5 at $240	1,200 00	
Stokers, not to exceed $3 a day	2,190 00	
		53,790 00

City Prison.

232 Salaries and Wages—

Warden	$2,500 00	
Deputy Warden	1,800 00	
Head Keeper	1,800 00	
Keepers, 40	43,550 00	
Physician	1,500 00	
Apothecary	900 00	
Clerk	900 00	
Matron	700 00	
Assistant Matron	400 00	
Elevator Man	600 00	
Cook	600 00	
Orderly, Female	360 00	
Orderly, Female	300 00	
Orderlies, Female, 2 at $240	480 00	
Orderlies, Male, 2 at $240	480 00	
Helper	120 00	
Engineers, not to exceed $4.50 a day	4,927 50	
Engineer, not to exceed $4.50 a day, 21 days	94 50	
Electrician, not to exceed $4 a day	1,460 00	
Stokers, not to exceed $3 a day	4,380 00	
		67,852 00

Workhouse.

233 Salaries and Wages—

Warden	$2,500 00	
Head Keeper	1,800 00	
Keepers, 33	36,700 00	
Clerk	1,200 00	
Gardener	1,050 00	
Carpenter	1,050 00	
Butcher	1,050 00	
Wheelwright	1,000 00	
Shoemaker	900 00	
Apothecary	900 00	
Tailor, not to exceed $2 a day	608 00	
Mechanic's Helper	600 00	
Driver	600 00	
Hospital Helpers, 11 at $600	6,600 00	
Hospital Helpers, 6 at $480	2,880 00	
Matrons, 3 at $500	1,500 00	
Cook	480 00	
Chaplains, 3 at $450	1,350 00	
Orderly, Female	400 00	
Orderly, Female	360 00	
Orderlies, Female, 13 at $240	3,120 00	
Attendant, Male	300 00	
Orderlies, Male, 8 at $240	1,920 00	
Nurses, 2 at $360	720 00	
Nurses, 2 at $300	600 00	
Attendant, Female	300 00	
Helpers, 2 at $150	300 00	
Helper	60 00	
Stationary Enginemen, not to exceed $4.50 a day	4,927 50	
Stokers, not to exceed $3 a day	3,285 00	
		79,060 50

Penitentiary.

234 Salaries and Wages—

Warden	$3,500 00	
Head Keeper	1,800 00	
Keepers, 65	72,400 00	
Physician	1,200 00	
General Foreman	2,190 00	
Stonecutter, not to exceed $4.50 a day	1,368 00	
Mason	1,200 00	
Butcher	1,050 00	
Bakers, Foremen, 2 at $1,040	2,080 00	
Clerks, 2 at $900	1,800 00	
Shoemaker	900 00	
Elevator Man	600 00	
Mechanic's Helper	600 00	
Hospital Helpers, 3 at $600	1,800 00	
Hospital Helper	480 00	
Hospital Helper	300 00	
Matrons, 2 at $500	1,000 00	
Assistant Matron	400 00	
Chaplain	450 00	
Laundresses, 3 at $450	1,350 00	
Trained Nurse	300 00	
Orderlies, 2 at $240	480 00	
Waitress	240 00	
Engineers, not to exceed $4.50 a day	6,570 00	
Stoker, not to exceed $3 a day	1,095 00	
		105,153 00

Branch Workhouse, Harts Island.

235 Salaries and Wages—

Warden	$2,000 00	
Head Keeper	1,800 00	
Keepers, 14	13,000 00	

Salaries and Wages—

Physician	1,200 00	
Painter	1,050 00	
Carpenter	1,050 00	
Tinsmith	1,050 00	
Teacher	900 00	
Cook	600 00	
Hospital Helpers, 5 at $600	3,000 00	
Hospital Helper	480 00	
Matron	500 00	
Matron	400 00	
Chaplains, 3 at $450	1,350 00	
Laundress	450 00	
Orderly, Female	240 00	
Orderlies, Male, 15 at $240	3,600 00	
Helpers, 7 at $150	1,050 00	
Engineers, not to exceed $4.50 a day	4,927 50	
Stokers, not to exceed $3 a day	6,570 00	
		45,217 50

Reformatory, Harts Island.

236 Salaries and Wages—

Secretary to Board of Parole	$3,000 00	
Overseer	1,800 00	
Clerk	1,200 00	
Instructor of Industry	1,200 00	
Cutter	900 00	
Keepers, 11	10,300 00	
Hospital Helpers, 2 at $600	1,200 00	
Hospital Helper	480 00	
Orderly	240 00	
		20,320 00

Branch Workhouse, Rikers Island.

237 Salaries and Wages—

Warden	$3,000 00	
Head Keeper	1,800 00	
Keepers, 13	13,550 00	
Physician	1,200 00	
Orderly	480 00	
Boatman	480 00	
Chaplains, 2 at $450	900 00	
Helper	150 00	
Stoker, not to exceed $3 a day	1,095 00	
		22,655 00

Bertillon System.

238 Salaries and Wages—

Chief of Bertillon System		1,200 00

City Prison, Brooklyn.

239 Salaries and Wages—

Warden	$3,000 00	
Head Keeper	1,800 00	
Keepers, 19	19,900 00	
Bookkeeper	1,500 00	
Physician	1,200 00	
Drivers, 6 at $1,000	6,000 00	
Matrons, 2 at $500	1,000 00	
Clerk	800 00	
Cook	480 00	
Hospital Helpers, 2 at $480	960 00	
Orderlies, Female, 4 at $240	960 00	
Orderlies, Male, 3 at $240	720 00	
Engineers, not to exceed $4.50 a day	4,927 50	
Stokers, not to exceed $3 a day	3,285 00	
		46,532 50
		1,271,351 00

DEPARTMENT OF HEALTH.

General Administration.

Office of the Commissioner.

240 Salaries and Wages—

Commissioner	$7,500 00	
Secretaries to the President, 2 at $3,000	6,000 00	
Clerk	1,500 00	
Clerk	480 00	
Stenographer and Typewriter	1,050 00	
Stenographer and Typewriter	900 00	
Messenger	1,500 00	
Driver	720 00	
Automobile Engineman	1,200 00	
		$20,850 00

Office of the Secretary.

241 Salaries and Wages—

Secretary	$5,000 00	
Clerk	2,550 00	
Clerk	1,500 00	
Clerk	1,050 00	
Clerk	900 00	
Clerk	300 00	
Clerk	540 00	
Stenographer and Typewriter	1,200 00	
		13,040 00

Office of the Sanitary Superintendent.

242 Salaries and Wages—

Sanitary Superintendent	$7,000 00	
Assistant Sanitary Superintendents, 5 at $3,500	17,500 00	
Sanitary Engineer	2,400 00	
Superintendent of Hospitals	3,000 00	
Sanitary Inspector	1,500 00	

	Salaries and Wages—		
	Clerk	1,500 00	
	Clerk	1,200 00	
	Clerks, 2 at $900	1,800 00	
	Clerk	750 00	
	Clerk	600 00	
	Clerks, 2 at $480	960 00	
	Stenographer and Typewriter	1,200 00	
	Stenographer and Typewriter	750 00	
	Typewriting Copyist	600 00	
	Automobile Enginemen, 2 at $1,200	2,400 00	
			43,160 00

Office of the General Medical Officer.

243	Salaries and Wages—		
	General Medical Officer	$5,000 00	
	Bacteriologist	1,500 00	
	Medical Inspector	2,550 00	
	Stenographer and Typewriter	900 00	
	Driver	780 00	
			10,730 00
244	General Supplies		1,300 00
245	Repairs and Replacements by Contract or Open Order		575 00
246	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		225 00
247	Purchase of Furniture and Fittings		1,275 00
248	Maintenance of Automobiles, including Equipment, Care and Storage		3,000 00
249	Forage, Shoeing and Boarding Horses		1,400 00
250	Hire of Automobile		200 00
251	Contingencies		23,250 00
252	Special Contract Obligations		69,880 00
			$188,885 00

ADMINISTRATION.

Bureau of Records.

253	Salaries and Wages—		
	Registrar of Records	$5,000 00	
	Assistant Registrars of Records, 5 at $3,000	15,000 00	
	Medical Inspector	1,500 00	
	Medical Clerks, 2 at $1,200	2,400 00	
	Medical Clerk	1,050 00	
	Tabulators, 3 at $1,500	4,500 00	
	Clerks, 4 at $1,800	7,200 00	
	Clerks, 3 at $1,500	4,500 00	
	Clerks, 3 at $900	2,700 00	
	Clerk	750 00	
	Clerks, 2 at $480	960 00	
	Clerks, 3 at $300	900 00	
	Stenographer and Typewriter	900 00	
	Stenographer and Typewriter	750 00	
	Typewriting Copyist	900 00	
	Typewriting Copyist	750 00	
	Typewriting Copyists, 15 at $600	9,000 00	
	Bookbinders, 2 at $1,200	2,400 00	
	Bookbinders' Seamstress	750 00	
	Laborer	900 00	
			$62,810 00
254	General Supplies		1,000 00
255	Repairs and Replacements by Contract or Open Order		150 00
256	Purchase of Furniture and Fittings		500 00
257	Contingencies		400 00
			64,860 00

Division of the Chief Clerk.

258	Salaries and Wages—		
	Chief Clerk	$3,500 00	
	Clerks, 4 at $2,550	10,200 00	
	Clerks, 2 at $2,400	4,800 00	
	Clerks, 2 at $1,800	3,600 00	
	Clerks, 5 at $1,500	7,500 00	
	Clerks, 4 at $1,200	4,800 00	
	Clerks, 5 at $900	4,500 00	
	Clerk	750 00	
	Clerk	540 00	
	Clerks, 9 at $480	4,320 00	
	Clerks, 3 at $300	900 00	
	Bookkeepers, 4 at $1,200	4,800 00	
	Stenographers and Typewriters, 3 at $900	2,700 00	
	Stenographers and Typewriters, 3 at $750	2,250 00	
	Stenographer and Typewriter	600 00	
	Typewriting Copyists, 2 at $900	1,800 00	
	Typewriting Copyist	750 00	
	Typewriting Copyists, 3 at $600	1,800 00	
	Messenger	1,500 00	
	Elevator Attendants, 3 at $900	2,700 00	
	Stationary Enginemen, not to exceed $4.50 a day	1,642 50	
	Firemen, not to exceed $3 a day	4,380 00	
	Telephone Switchboard Operators, 6 at $900	5,400 00	
	Telephone Switchboard Operators, 2 at $750	1,500 00	
	Janitor	750 00	
	Foreman of Laborers	1,500 00	
	Laborers	8,574 00	
	Cleaners	6,504 00	
	Watchman	600 00	
			$95,160 50
259	General Supplies		3,500 00
260	Materials for Repairs and Replacements by Departmental Labor		500 00
261	Repairs and Replacements by Contract or Open Order		3,000 00
262	Purchase of Furniture and Fittings		1,500 00
263	Fuel		2,500 00
264	Telephone Service		20,000 00
265	Contingencies		8,000 00
			134,160 50

Division of Child Hygiene.

266	Salaries and Wages—		
	Medical Inspector	$3,000 00	
	Medical Inspector	2,550 00	
	Medical Inspector	1,950 00	
	Medical Inspectors, 13 at $1,500	19,500 00	
	Medical Inspectors, 145 at $1,200	174,000 00	
	Nurse	1,200 00	
	Nurses, 141 at $900	126,900 00	
	Clerk	1,500 00	
	Clerk	1,200 00	
	Clerk	1,050 00	
	Clerks, 2 at $900	1,800 00	
	Clerks, 3 at $600	1,800 00	
	Clerks, 3 at $480	1,440 00	
	Clerks, 5 at $300	1,500 00	
	Stenographer and Typewriter	900 00	
	Typewriting Copyists, 2 at $600	1,200 00	
			$341,490 00
267	General Supplies		3,000 00
268	Repairs and Replacements by Contract or Open Order		200 00
269	Purchase of Furniture and Fittings		200 00
270	Forage, Shoeing and Boarding Horses		300 00
271	Contingencies		3,000 00
			348,190 00

Division of District Medical Inspection.

272	Salaries and Wages—		
	Medical Inspector	$3,000 00	
	Medical Inspectors, 2 at $2,550	5,100 00	
	Medical Inspectors, 7 at $1,800	12,600 00	
	Medical Inspectors, 11 at $1,500	16,500 00	
	Medical Inspectors, 44 at $1,200	52,800 00	
	Sanitary Inspector	1,500 00	
	Veterinarian	1,800 00	
	Veterinarians, 8 at $1,200	9,600 00	
	Clerk	2,550 00	
	Clerk	1,800 00	
	Clerk	1,500 00	
	Clerks, 2 at $1,200	2,400 00	
	Clerks, 4 at $900	3,600 00	
	Clerk	750 00	
	Clerk	600 00	
	Clerks, 4 at $480	1,920 00	
	Clerks, 5 at $300	1,500 00	
	Stenographer and Typewriter	900 00	
	Stenographers and Typewriters, 2 at $600	1,200 00	
	Typewriting Copyist	900 00	
	Typewriting Copyists, 6 at $600	3,600 00	
	Telephone Switchboard Operators, 6 at $900	5,400 00	
	Disinfectors, 7 at $1,050	7,350 00	
	Disinfectors, 30 at $900	27,000 00	
	Disinfectors, 8 at $750	6,000 00	
	Drivers	20,340 00	
	Stablemen	2,040 00	
	Foreman of Laborers	1,200 00	
	Foreman of Laborers	720 00	
	Laborers	8,580 00	
	Watchmen, 2 at $600	1,200 00	
	Automobile Enginemen, 2 at $1,200	2,400 00	
	Stationary Engineman, not to exceed $4.50 a day	1,642 50	
	Firemen, not to exceed $3 a day	3,285 00	
			$213,277 50
273	General Supplies		11,000 00
274	Repairs and Replacements by Contract or Open Order		6,000 00
275	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		4,000 00
276	Purchase of Furniture and Fittings		1,500 00
277	Maintenance of Automobiles, including Equipment, Care and Storage		2,000 00
278	Purchase of Horses		2,000 00
279	Forage, Shoeing and Boarding Horses		15,000 00
280	Hired Teams, Horses and Carts		1,000 00
281	Fuel		1,000 00
282	Contingencies		5,000 00
			261,777 50

Division of Communicable Diseases.

283	Salaries and Wages—		
	Medical Inspector	$3,000 00	
	Medical Inspector	1,800 00	
	Medical Inspectors, 31 at $1,500	46,500 00	
	Medical Inspectors, 3 at $1,200	3,600 00	
	Bacteriologists, 2 at $1,500	3,000 00	
	Bacteriological Diagnostician	1,350 00	
	Bacteriological Diagnostician	1,200 00	
	Bacteriological Diagnostician	1,050 00	
	Attending Physicians, 45 at $600	27,000 00	
	Assistant Attending Physicians, 10 at $300	3,000 00	
	Clerks, 6 at $1,200	7,200 00	
	Clerks, 8 at $900	7,200 00	
	Clerks, 6 at $750	4,500 00	
	Clerks, 4 at $600	2,400 00	
	Clerks, 15 at $480	7,200 00	
	Clerks, 6 at $300	1,800 00	
	Hospital Clerks, 2 at $1,200	2,400 00	

	Salaries and Wages—			
	Hospital Clerks, 2 at $900	1,800 00		
	Hospital Clerks, 3 at $750	2,250 00		
	Hospital Clerks, 3 at $600	1,800 00		
	Stenographer and Typewriter	900 00		
	Stenographers and Typewriters, 2 at $750.	1,500 00		
	Nurse	1,200 00		
	Nurses, 158 at $900	142,200 00		
	Assistant Director, Bacteriological Laboratory	1,800 00		
	Laboratory Assistants, 2 at $900	1,800 00		
	Laboratory Assistants, 7 at $750	5,250 00		
	Laboratory Assistants, 18 at $600	10,800 00		
	Automobile Engineman	1,200 00		
	Driver	720 00		
	Helpers	2,400 00		
	Cleaners	2,520 00		
	Laborers	4,080 00		
	Disinfectors, 25 at $900	22,500 00		
			$328,920 00	
284	General Supplies		33,075 00	
285	Repairs and Replacements by Contract or Open Order		800 00	
286	Purchase of Furniture and Fittings		3,850 00	
287	Maintenance of Automobiles, including Equipment, Care and Storage		1,500 00	
288	Forage, Shoeing and Boarding Horses		800 00	
289	Fuel		200 00	
290	Contingencies		13,000 00	
				382,145 00

Division of General Sanitary Inspection.

291	Salaries and Wages—			
	Sanitary Inspector	$3,000 00		
	Sanitary Inspector	2,550 00		
	Sanitary Inspector	1,800 00		
	Sanitary Inspectors, 5 at $1,500	7,500 00		
	Sanitary Inspectors, 53 at $1,200	63,600 00		
	Sanitary Inspector	750 00		
	Inspector of Foods	1,800 00		
	Inspector of Foods	1,200 00		
	Medical Inspectors, 2 at $2,550	5,100 00		
	Medical Inspector	1,500 00		
	Medical Inspectors, 8 at $1,200	9,600 00		
	Clerks, 2 at $1,800	3,600 00		
	Clerks, 6 at $1,200	7,200 00		
	Clerk	1,050 00		
	Clerk	900 00		
	Clerk	750 00		
	Clerks, 9 at $480	4,320 00		
	Clerks, 6 at $300	1,800 00		
	Stenographer and Typewriter	600 00		
	Typewriting Copyist	900 00		
	Typewriting Copyists, 2 at $750	1,500 00		
	Typewriting Copyists, 5 at $600	3,000 00		
	Veterinarian	1,200 00		
	Driver	840 00		
	Driver	720 00		
	Foreman of Laborers	1,200 00		
	Laborers	7,120 00		
			$135,100 00	
292	General Supplies		1,800 00	
293	Repairs and Replacements by Contract or Open Order		700 00	
294	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		500 00	
295	Purchase of Furniture and Fittings		800 00	
296	Purchase of Horses		700 00	
297	Forage, Shoeing and Boarding Horses		1,600 00	
298	Contingencies		2,000 00	
				143,200 00

Division of Food Inspection.

299	Salaries and Wages—			
	Inspector of Foods	$3,000 00		
	Inspectors of Foods, 4 at $1,500	6,000 00		
	Inspectors of Foods, 28 at $1,200	33,600 00		
	Clerk	1,200 00		
	Clerk	480 00		
	Typewriting Copyist	750 00		
	Typewriting Copyist	600 00		
			$45,630 00	
300	General Supplies		2,050 00	
301	Purchase of Furniture and Fittings		200 00	
302	Contingencies		1,000 00	
				48,880 00

Division of Milk Inspection, City and Country.

303	Salaries and Wages—			
	Inspectors of Foods, 2 at $1,800	$3,600 00		
	Inspector of Foods	1,500 00		
	Inspectors of Foods, 6 at $1,350	8,100 00		
	Inspectors of Foods, 47 at $1,200	56,400 00		
	Clerk	750 00		
	Clerk	600 00		
	Clerks, 2 at $540	1,080 00		
	Clerks, 3 at $480	1,440 00		
	Clerk	300 00		
	Stenographers and Typewriters, 8 at $600.	4,800 00		
	Typewriting Copyist	750 00		
	Typewriting Copyists, 10 at $600	6,000 00		
	Medical Inspector	1,200 00		
			$86,520 00	
304	General Supplies		2,050 00	
305	Purchase of Furniture and Fittings		700 00	
306	Contingencies		35,000 00	
				124,270 00

Sanitary Police.

307	Salaries and Wages—			
	Sergeants, 2 at $1,500		$3,000 00	
	Patrolmen, 72 at $1,400		100,800 00	
				103,800 00

LABORATORIES.

Research and Vaccine.

308	Salaries and Wages—			
	Medical Inspector	$3,000 00		
	Medical Inspector	1,200 00		
	Assistant Director of Bacteriological Laboratories	2,100 00		
	Assistant Directors of Bacteriological Laboratories, 2 at $1,800	3,600 00		
	Assistant Director of Vaccine Laboratory.	1,800 00		
	Bacteriologists, 3 at $1,500	4,500 00		
	Bacteriologists, 6 at $1,200	7,200 00		
	Pathologist	1,200 00		
	Chemist	1,800 00		
	Laboratory Assistants, 5 at $900	4,500 00		
	Laboratory Assistants, 5 at $750	3,750 00		
	Laboratory Assistants, 18 at $600	10,800 00		
	Clerk	480 00		
	Helpers	2,460 00		
	Cleaner	360 00		
	Laborers	600 00		
			$49,350 00	
309	General Supplies		13,000 00	
310	Repairs and Replacements by Contract or Open Order		200 00	
311	Purchase of Furniture and Fittings		300 00	
312	Purchase of Horses		2,000 00	
313	Forage		100 00	
314	Contingencies		1,000 00	
				65,950 00

Chemical.

315	Salaries and Wages—			
	Chemist	$2,100 00		
	Chemist	1,800 00		
	Chemist	1,500 00		
	Chemists, 3 at $1,200	3,600 00		
	Laboratory Assistants, 2 at $750	1,500 00		
	Laboratory Assistants, 2 at $600	1,200 00		
	Typewriting Copyist	600 00		
	Domestic	240 00		
			$12,540 00	
316	General Supplies		2,400 00	
317	Repairs and Replacements by Contract or Open Order		100 00	
318	Purchase of Furniture and Fittings		100 00	
319	Contingencies		100 00	
				15,240 00

Drug.

320	Salaries and Wages—			
	Chemist	$1,500 00		
	Apothecary	1,200 00		
	Laboratory Assistant	900 00		
	Laboratory Assistant	600 00		
	Clerk	1,500 00		
	Laborers	2,400 00		
			$8,100 00	
321	General Supplies		20,000 00	
322	Repairs and Replacements by Contract or Open Order.		150 00	
323	Purchase of Furniture and Fittings		100 00	
324	Contingencies		125 00	
				28,475 00

HOSPITALS.

Willard Parker and Reception.

325	Salaries and Wages—			
	Hospital Physicians, 3 at $1,800	$5,400 00		
	Hospital Physicians, 4 at $1,200	4,800 00		
	Medical Inspector	1,800 00		
	Internes, 11 at $120	1,320 00		
	Hospital Clerk	1,200 00		
	Hospital Clerk	720 00		
	Hospital Clerk	600 00		
	Hospital Clerks, 2 at $480	960 00		
	Matron	900 00		
	Nurse	1,200 00		
	Nurse	900 00		
	Nurses, 3 at $720	2,160 00		
	Nurses, 37 at $600	22,200 00		
	Nurses, 13 at $540	7,020 00		
	Nurses, 11 at $480	5,280 00		
	Domestics	20,700 00		
	Orderlies	7,800 00		
	Helpers	1,272 00		
	Stationary Engineers, not to exceed $4.50 a day	4,927 50		
	Firemen, not to exceed $3 a day	7,665 00		
	Elevatormen, 2 at $600	1,200 00		
	Disinfector	1,050 00		
	Carpenters	1,440 00		
	Drivers	7,320 00		
	Electrician, not to exceed $4.50 a day	1,408 50		
	Laborers	14,670 00		
	Stablemen	2,220 00		
			$128,133 00	

326	General Supplies		80,000 00	
327	Materials for Repairs and Replacements by Departmental Labor		3,500 00	
328	Repairs and Replacements by Contract or Open Order		1,000 00	
329	Purchase of Furniture and Fittings		5,500 00	
330	Fuel		12,000 00	
331	Contingencies		300 00	
				230,433 00

Hospital Clinics for Contagious Eye Diseases.

332	Salaries and Wages—			
	Medical Inspector	$2,550 00		
	Medical Inspector	1,500 00		
	Medical Inspectors, 7 at $1,200	8,400 00		
	Nurses, 6 at $900	5,400 00		
	Hospital Clerk	780 00		
	Hospital Clerk	720 00		
	Hospital Clerks, 2 at $600	1,200 00		
	Clerk	900 00		
	Clerk	480 00		
	Orderlies	1,200 00		
	Watchmen	1,320 00		
	Helpers	1,680 00		
	Laborers	240 00		
	Domestics	2,160 00		
			$28,530 00	
333	General Supplies		7,500 00	
334	Materials for Repairs and Replacements by Departmental Labor		100 00	
335	Repairs and Replacements by Contract or Open Order		800 00	
336	Purchase of Furniture and Fittings		200 00	
337	Fuel		400 00	
				37,530 00

Riverside.

338	Salaries and Wages—			
	Hospital Physicians, 2 at $1,800	$3,600 00		
	Hospital Physicians, 2 at $1,200	2,400 00		
	Medical Inspector	1,800 00		
	Hospital Clerks, 3 at $780	2,340 00		
	Hospital Clerks, 3 at $720	2,160 00		
	Hospital Clerk	600 00		
	Hospital Clerks, 2 at $480	960 00		
	Chaplain	600 00		
	Matron	900 00		
	Nurse	900 00		
	Nurses, 21 at $600	12,600 00		
	Nurses, 8 at $540	4,320 00		
	Nurse	480 00		
	Domestics	21,600 00		
	Orderlies	4,800 00		
	Stationary Engineers, not to exceed $4.50 a day	4,927 50		
	Firemen, not to exceed $3 a day	4,380 00		
	Boatmen	2,760 00		
	Carpenter	600 00		
	Gardener	600 00		
	Drivers	5,040 00		
	Laborers	16,950 00		
	Captains	4,200 00		
	Marine Engineers, not to exceed $4.50 a day	6,570 00		
	Marine Firemen, not to exceed $3 a day	4,380 00		
	Deckhands	1,824 00		
			$112,291 50	
339	General Supplies		76,000 00	
340	Materials for Repairs and Replacements by Departmental Labor		2,500 00	
341	Repairs and Replacements by Contract or Open Order		3,500 00	
342	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		500 00	
343	Purchase of Furniture and Fittings		1,500 00	
344	Fuel		23,000 00	
345	Forage, Shoeing and Boarding Horses		600 00	
346	Contingencies		400 00	
				220,291 50

Kingston Avenue.

347	Salaries and Wages—			
	Hospital Physician	$1,800 00		
	Hospital Physician	1,200 00		
	Medical Inspector	1,800 00		
	Internes, 7 at $120	840 00		
	Hospital Clerk	1,200 00		
	Hospital Clerk	900 00		
	Hospital Clerks, 5 at $600	3,000 00		
	Matron	900 00		
	Telephone Switchboard Operator	750 00		
	Laboratory Assistant	600 00		
	Nurses, 2 at $720	1,440 00		
	Nurses, 44 at $600	26,400 00		
	Nurses, 10 at $540	5,400 00		
	Nurses, 10 at $480	4,800 00		
	Domestics	18,792 00		
	Orderlies	1,920 00		
	Stationary Engineers, not to exceed $4.50 a day	6,570 00		
	Firemen, not to exceed $3 a day	5,475 00		
	Carpenters	3,280 50		
	Gardener	720 00		
	Watchman	600 00		
	Drivers	8,820 00		
	Laborers	20,880 00		
			$118,087 50	
348	General Supplies		30,000 00	
349	Materials for Repairs and Replacements by Departmental Labor		6,000 00	
350	Repairs and Replacements by Contract or Open Order.		2,000 00	
351	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		750 00	
352	Purchase of Furniture and Fittings		1,500 00	
353	Fuel		18,000 00	
354	Contingencies		300 00	
				176,637 50

Tuberculosis Sanatorium, Otisville.

355	Salaries and Wages—			
	Hospital Physicians, 2 at $1,800	$3,600 00		
	Hospital Physicians, 3 at $1,200	3,600 00		
	Hospital Clerks, 2 at $600	1,200 00		
	Hospital Clerk	480 00		
	Hospital Clerks, 2 at $420	840 00		
	Hospital Clerk	300 00		
	Nurses, 2 at $600	1,200 00		
	Nurses, 4 at $480	1,920 00		
	Storekeeper	780 00		
	Stationary Engineer	900 00		
	Firemen	1,440 00		
	Carpenters	4,608 00		
	Blacksmith	780 00		
	Plumber	900 00		
	Tinsmith	900 00		
	Laboratory Assistant	600 00		
	Orderlies	1,500 00		
	Helpers (Patient)	4,800 00		
	Domestics	6,900 00		
	Dairyman	600 00		
	Laborers	25,000 00		
			$62,848 00	
356	General Supplies		75,000 00	
357	Materials for Repairs and Replacements by Departmental Labor		5,000 00	
358	Repairs and Replacements by Contract or Open Order		1,500 00	
359	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		2,000 00	
360	Purchase of Furniture and Fittings		4,000 00	
361	Maintenance of Automobiles, including Equipment, Care and Storage		500 00	
362	Purchase of Horses		600 00	
363	Forage, Shoeing and Boarding Horses (Forage for Cows)		6,000 00	
364	Hired Teams, Horses and Carts		100 00	
365	Fuel		6,000 00	
366	Telephone Service		450 00	
367	Contingencies		5,000 00	
				168,998 00

Hospital Service, Richmond.

368	Contingencies		4,000 00	
				2,747,723 00

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

General Administration.

369	Salaries and Wages, Commissioner's and Central Office—			
	Commissioner	$7,500 00		
	Deputy Commissioner	6,000 00		
	Consulting Electrical Engineer	4,000 00		
	Secretary to the Department	3,000 00		
	Secretary to the Commissioner	3,500 00		
	Secretary to the Deputy Commissioner	3,000 00		
	Stenographer to the Commissioner	1,200 00		
	Chief Clerk and Auditor	4,000 00		
	General Bookkeeper	3,000 00		
	Bookkeeper	2,100 00		
	Clerk	3,000 00		
	Clerks, 2 at $2,700	5,400 00		
	Clerk	2,100 00		
	Clerk	1,800 00		
	Clerk	1,650 00		
	Clerks, 2 at $1,050	2,100 00		
	Clerks, 6 at $900	5,400 00		
	Clerk	750 00		
	Telephone Operator	1,050 00		
	Stenographers, 2 at $1,350	2,700 00		
	Stenographers, 2 at $1,200	2,400 00		
	Automobile Engineman	1,500 00		
			$67,150 00	
370	Salaries and Wages, Laboratories—			
	Chief Chemist	$3,500 00		
	Chemist	1,950 00		
	Chemists, 5 at $1,500	7,500 00		
	Chemist	1,200 00		
	Bacteriologist	1,800 00		
	Bacteriologists, 4 at $1,200	4,800 00		
	Laboratory Assistants, 7 at $900	6,300 00		
	Laborers	5,867 00		
			32,917 00	
				$100,067 00

General Supplies—

371	Commissioner's and Central Office	$900 00		
372	Laboratories	4,000 00		
			$4,900 00	
373	Repairs and Replacements by Contract or Open Order		100 00	
374	Purchase of Furniture and Fittings		750 00	
375	Maintenance of Automobiles, including Equipment, Care and Storage		1,800 00	
376	Hired Teams, Horses and Carts		1,250 00	
377	Telephone Service		4,000 00	
378	Contingencies		11,000 00	
379	Taxes		60,000 00	
			83,800 00	
				$183,867 00

WATER SUPPLY, BOROUGHS OF MANHATTAN AND THE BRONX.

Administration.

380	Salaries, Office of the Deputy Commissioner, The Bronx—			
	Deputy Commissioner	$4,000 00		
	Stenographer and Typewriter	1,200 00		
	Clerk	750 00		
			$5,950 00	
381	Salaries, Office of Chief Engineer—			
	Chief Engineer, half salary	$5,000 00		
	Consulting Engineer, half salary	3,500 00		
	Clerk	2,000 00		
	Clerk	1,950 00		
	Clerk	1,200 00		
	Stenographer and Typewriter	1,350 00		
	Inspector of Meters	1,800 00		
	Inspector of Meters	1,000 00		
	Messengers, 2 at $900	1,800 00		
			19,600 00	
382	General Supplies		750 00	
383	Purchase of Furniture and Fittings		600 00	
384	Telephone Service		5,000 00	
385	Contingencies		100 00	
				$32,000 00

Collection and Storage, Croton and Bronx Systems—Care of Water Sheds, Aqueducts, Ponds and Reservoirs.

386	Salaries, Croton Water System—			
	Principal Assistant Engineer	$5,500 00		
	Assistant Engineer	2,400 00		
	Assistant Engineer	2,100 00		
	Leveler	1,400 00		
	Stenographer and Typewriter	1,200 00		
	Keepers	8,000 00		
			$20,600 00	
387	Salaries, Bronx River System—			
	Assistant Engineer, half salary	$1,500 00		
	Inspector of Construction	1,800 00		
	Keeper	1,200 00		
			4,500 00	
388	Wages, Croton Water System—			
	Foremen	$18,123 00		
	Assistant Foremen	10,170 00		
	Carpenters, not to exceed $5 per day	3,130 00		
	Stone Cutters, not to exceed $4.50 per day	1,408 50		
	Painters, not to exceed $4 per day	2,504 00		
	Masons, not to exceed $5 per day	4,695 00		
	Housesmiths, not to exceed $4.50 per day	1,408 50		
	Caulkers, not to exceed $4 per day	2,920 00		
	Machinists, not to exceed $4.50 per day	1,642 50		
	Stokers, not to exceed $3 per day	4,068 00		
	Firemen, not to exceed $3 per day	1,095 00		
	Oilers, not to exceed $3 per day	2,034 00		
	Mechanics' Helpers	1,095 00		
	Axemen	1,851 50		
	Linemen	1,095 00		
	Masons' Helpers	782 50		
	Watchmen	4,562 50		
	Drivers	912 50		
	Rockmen	876 00		
	Laborers	74,253 50		
			138,627 00	
389	Wages, Bronx River System—			
	Foremen	$3,077 00		
	Assistant Foremen	2,973 00		
	Carpenters, not to exceed $5 per day	1,565 00		
	Laborers	14,353 50		
			21,968 50	

390	General Supplies		2,000 00	
391	Materials for Repairs and Replacements by Departmental Labor		10,000 00	
392	Repairs and Replacements by Contract or Open Order		4,500 00	
393	Purchase of Furniture and Fittings		250 00	
394	Hired Teams, Horses and Carts		39,000 00	
395	Fuel		2,275 00	
396	Contingencies		4,500 00	
				248,220 50

COLLECTION AND STORAGE—PUMPING STATIONS.

397	Salaries and Wages—			
	Mechanical Engineer, half salary	$2,400 00		
	Engineman	2,500 00		
	Enginemen, 4 at $1,750	7,000 00		
	Stationary Engineers, not to exceed $4.50 per day	24,637 50		
	Bricklayers, not to exceed $5.60 per day	1,752 80		
	Carpenters, not to exceed $5 per day	1,565 00		
	Machinists, not to exceed $4.50 per day	4,927 50		
	Blacksmiths, not to exceed $4.50 per day	1,642 50		
	Painters, not to exceed $4 per day	1,252 00		
	Machinists' Helpers	5,110 00		
	Firemen, not to exceed $3 per day	35,040 00		
	Oilers, not to exceed $3 per day	29,565 00		
	Pipefitters' Helpers	939 00		
	Storekeeper	1,200 00		
	Watchmen	912 50		
	Pipefitters, not to exceed $5 day	1,565 00		
	Laborers	12,692 50		
			134,701 30	
398	General Supplies		7,000 00	
399	Materials for Repairs and Replacements by Departmental Labor		9,230 00	
400	Repairs and Replacements by Contract or Open Order		23,000 00	
401	Hired Teams, Horses and Carts		5,775 00	
402	Fuel		64,560 00	
403	Contingencies		240 00	
				244,506 30

DISTRIBUTION—MAINTENANCE OF CROTON AND BRONX SYSTEMS.

404	Salaries—			
	Assistant Engineer, half salary	$2,400 00		
	Engineer, half salary	2,000 00		
	Assistant Engineer	3,000 00		
	Foreman	1,800 00		
	Tappers, 2 at $1,400	2,800 00		
			12,000 00	
405	Wages—			
	Foremen	$32,945 00		
	Assistant Foremen	30,255 00		
	Pavers, not to exceed $5 per day	6,850 00		
	Machinists, not to exceed $4.50 per day	3,295 00		
	Blacksmiths, not to exceed $4.50 per day	1,408 50		
	Bricklayers, not to exceed $5.60 per day	1,752 80		
	Caulkers, not to exceed $4 per day	66,780 00		
	Assistant Tappers, not to exceed $3.50 per day	15,680 00		
	Blacksmiths' Helpers	939 00		
	Plumbers' Helpers	1,878 00		
	Plumbers' Apprentices	730 00		
	Flaggers, not to exceed $4.50 per day	4,225 00		
	Toolmen	1,565 00		
	Machinists' Helpers	3,285 00		
	Cement Workers	912 50		
	Laborers	125,100 50		
			297,601 30	
406	General Supplies		6,000 00	
407	Materials for Repairs and Replacements by Departmental Labor		40,000 00	
408	Repairs and Replacements by Contract or Open Order		40,000 00	
409	Hired Teams, Horses and Carts		62,000 00	
410	Fuel		2,000 00	
411	Contingencies		500 00	
				460,101 30

DISTRIBUTION—WATER REGISTRATION, PERMITS AND REVENUE COLLECTIONS, MANHATTAN.

412	Salaries and Wages—			
	Water Register	$4,000 00		
	Auditor	3,500 00		

Salaries and Wages—

Cashier	2,500 00	
Financial Clerk	2,000 00	
Financial Clerk	1,350 00	
Clerk	2,250 00	
Clerks, 5 at $1,800	9,000 00	
Clerks, 2 at $1,650	3,300 00	
Clerks, 6 at $1,500	9,000 00	
Clerks, 7 at $1,350	9,450 00	
Clerks, 10 at $1,200	12,000 00	
Clerks, 14 at $1,050	14,700 00	
Clerks, 15 at $900	13,500 00	
Clerks, 6 at $750	4,500 00	
Clerks, 37 at $600	22,200 00	
Clerk	300 00	
Stenographers and Typewriters, 2 at $1,200	2,400 00	
Stenographers and Typewriters, 2 at $900	1,800 00	
Typewriter Copyists, 7 at $900	6,300 00	
Telephone Operator	900 00	
Automobile Engineman	1,500 00	
Measurer	1,500 00	
Measurers, 4 at $1,000	4,000 00	
Temporary Clerks	1,350 00	
General Inspector	1,800 00	
Inspector of Meters and Water Consumption	1,500 00	
Inspector of Meters and Water Consumption	1,350 00	
Inspectors of Meters and Water Consumption, 12 at $1,200	14,400 00	
Inspectors of Meters and Water Consumption, 2 at $1,100	2,200 00	
Inspectors of Meters and Water Consumption, 70 at $1,000	70,000 00	
Assistant Foremen	2,817 00	
Laborers	13,146 00	
		$240,513 00
413 General Supplies		940 00
414 Repairs and Replacements by Contract or Open Order		480 00
415 Purchase of Furniture and Fittings		1,780 00
416 Maintenance of Automobiles, including Equipment, Care and Storage		1,500 00
417 Contingencies		5,745 00
		250,958 00

The Bronx.

418	Salaries and Wages—		
	Water Register	$3,000 00	
	Cashier	2,500 00	
	Clerks, 2 at $1,650	3,300 00	
	Clerk	1,500 00	
	Clerk	1,350 00	
	Clerks, 3 at $1,050	3,150 00	
	Clerks, 3 at $900	2,700 00	
	Clerks, 7 at $600	4,200 00	
	Measurer	1,500 00	
	Measurers, 3 at $1,200	3,600 00	
	General Inspector of Meters	1,650 00	
	Inspectors of Meters, 2 at $1,200	2,400 00	
	Inspectors of Meters, 13 at $1,000	13,000 00	
	Stenographer and Typewriter	1,050 00	
	Messenger	900 00	
	Laborers	3,130 00	
			48,930 00
419	General Supplies		350 00
420	Purchase of Furniture and Fittings		100 00
421	Hired Teams, Horses and Carts		3,360 00
422	Contingencies		850 00
			53,590 00

Department Boat.

423	Salaries and Wages—		
	Pilot, 8 months	$1,500 00	
	Engineman, not to exceed $4.50 per day, 8 months	1,094 66	
	Stoker, not to exceed $3 per day, 8 months	730 00	
	Deckhands, 2 at $2.50 per day, 8 months	1,217 66	
	Watchmen, 2 at $2.50 per day, 8 months	1,217 66	
			$5,759 98
424	General Supplies		250 00
425	Repairs and Replacements by Contract or Open Order		2,000 00
426	Fuel		2,000 00
427	Contingencies		400 00
			10,409 98
			1,299,786 08

Water Supply, Borough of Brooklyn.

Administration.

428	Salaries, Office of Deputy Commissioner—		
	Deputy Commissioner	$5,500 00	
	Stenographers, 3 at $1,200	3,600 00	
	Messenger	1,200 00	
	Telephone Operator	900 00	
	Clerk	1,050 00	
			$12,250 00

Distribution—Water Registration—Permits and Revenue Collections, Bureau of Water Registrar.

429	Salaries—		
	Water Registrar	$4,000 00	
	Cashier	2,250 00	
	Financial Clerk	2,100 00	
	Clerk	2,000 00	
	Clerks, 4 at $1,350	5,400 00	
	Clerks, 10 at $1,200	12,000 00	
	Clerks, 6 at $1,050	6,300 00	
	Clerks, 3 at $1,000	3,000 00	
	Clerks, 3 at $900	2,700 00	
	Clerk	750 00	
	Clerks, 4 at $600	2,400 00	
	Messenger	900 00	
	Inspector	1,500 00	
	Inspectors, 4 at $1,000	4,000 00	
	Measurer	1,500 00	
	Measurer	1,000 00	
	Temporary Clerks	900 00	
		52,700 00	
430	General Supplies	300 00	
431	Purchase of Furniture and Fittings	300 00	
432	Contingencies	900 00	
		54,200 00	
			66,450 00

Water Supply, Borough of Queens.

Administration.

433	Salaries, Office of Deputy Commissioner—		
	Deputy Commissioner	$3,000 00	
	Clerk	1,350 00	
	Stenographer and Typewriter	1,200 00	
			$5,550 00
434	Salaries, Office of Chief Engineer—		
	Engineer in Charge, part salary	$2,000 00	
	Clerk, part salary	1,350 00	
	Stenographer and Typewriter	1,050 00	
		4,400 00	
435	General Supplies	200 00	
436	Purchase of Furniture and Fittings	200 00	
437	Maintenance of Automobiles, including Equipment, Care and Storage	500 00	
438	Telephone Service	2,000 00	
			$12,850 00

Collection and Storage—Pumping Stations and Standpipes.

439	Salaries and Wages—		
	Stationary Engineers, not to exceed $4.50 per day	$32,850 00	
	Oilers, not to exceed $3 per day	1,095 00	
	Stokers, not to exceed $3 per day	26,280 00	
	Laborers	4,380 00	
			$64,605 00
440	General Supplies		3,200 00
441	Materials for Repairs and Replacements by partmental Labor		4,200 00
442	Repairs and Replacements by Contract or Open Order		3,000 00
443	Hired Teams, Horses and Carts		720 00
444	Fuel		32,000 00
445	Contingencies		1,300 00
			109,025 00

Distribution, Maintenance.

446	Salaries—		
	Engineman (Superintendent)	$1,800 00	
	Foreman	1,800 00	
	Foreman	900 00	
			$4,500 00
447	Wages—		
	Caulkers, not to exceed $4 per day	$4,380 00	
	Tappers, not to exceed $4 per day	5,840 00	
	Foreman	1,460 00	
	Assistant Foreman	1,095 00	
	Toolmen	912 50	
	Pipefitters, not to exceed $5 per day	1,825 00	
	Pipefitters' Helpers	912 50	
	Bricklayers, not to exceed $5.60 per day	1,752 80	
	Carpenters, not to exceed $5 per day	1,565 00	
	Painter, not to exceed $4 per day	1,252 00	

	Wages—			
	Mechanics' Helpers	1,095 00		
	Laborers	10,005 00		
			32,094 80	
448	General Supplies		3,000 00	
449	Materials for Repairs and Replacements by Departmental Labor		4,000 00	
450	Repairs and Replacements by Contract or Open Order		3,000 00	
451	Hired Teams, Horses and Carts		3,600 00	
452	Fuel		155 00	
453	Contingencies		400 00	
454	Fire Hydrant Rentals and Water Purchased		260,000 00	
				310,749 80
	Distribution—Water Registration, Permits and Revenue Collections.			
455	Salaries and Wages—			
	Cashier		$1,500 00	
	Financial Clerk		1,500 00	
	Clerk		1,500 00	
	Clerk		1,350 00	
	Clerk		1,200 00	
	Clerk		1,050 00	
	Clerk		600 00	
	Stenographer and Typewriter		1,000 00	
	Inspectors of Meters, 7 at $1,000		7,000 00	
	Messenger		900 00	
	Temporary Clerk		450 00	
			18,050 00	
				450,674 80

WATER SUPPLY, BOROUGH OF RICHMOND.

Administration.

456	Salaries, Office of Deputy Commissioner—			
	Deputy Commissioner	$2,500 00		
	Stenographer and Typewriter	1,200 00		
	Clerk	1,800 00		
	Messenger	1,200 00		
	Telephone Operator	900 00		
			7,600 00	
457	Salaries, Office of Chief Engineer—			
	Assistant Engineer	$5,500 00		
	Clerk	1,500 00		
	Stenographer and Typewriter	1,200 00		
			8,200 00	
458	General Supplies		950 00	
459	Purchase of Furniture and Fittings		500 00	
460	Maintenance of Automobiles, including Equipment, Care and Storage		1,000 00	
461	Contingencies		800 00	
462	Telephone Service		1,500 00	
				20,550 00

Collection and Storage—Pumping Stations.

463	Salaries and Wages—			
	Engineer (in charge)	$1,800 00		
	Clerk	1,050 00		
	Mechanical Draftsman, half time	900 00		
	Typewriter Copyist	900 00		
	Stationary Engineers, not to exceed $4.50 per day	35,154 00		
	Stokers, not to exceed $3 per day	29,016 00		
	Oilers, not to exceed $3 per day	10,044 00		
	Machinists, not to exceed $4.50 per day	3,015 00		
	Machinists' Helpers	2,010 00		
	Pipefitters, not to exceed $5 per day	3,350 00		
	Pipefitters' Helpers	1,675 00		
	Bricklayers, not to exceed $5.60 per day	2,562 00		
	Bricklayers' Helpers	1,143 75		
	Carpenters, not to exceed $5 per day	1,565 00		
	Painters, not to exceed $4 per day	1,220 00		
	Blacksmiths, not to exceed $4.50 per day	686 25		
	Blacksmiths' Helpers	419 37		
	Coal Passers	8,212 50		
	Well Drivers	1,830 00		
	Caulkers, not to exceed $4 per day	2,440 00		
	Watchmen	2,737 50		
	Drivers	782 50		
	Foremen	1,825 00		
	Assistant Foremen	915 00		
	Laborers	10,675 00		
			$125,927 87	
464	General Supplies		2,400 00	
465	Materials for Repairs and Replacements by Departmental Labor		17,000 00	
466	Repairs and Replacements by Contract or Open Order		5,000 00	
467	Hired Teams, Horses and Carts		2,000 00	
468	Fuel		46,000 00	
469	Contingencies		600 00	
			198,927 87	

Distribution—Maintenance.

470	Salaries—			
	Assistant Engineer	$2,550 00		
	Transitman	1,800 00		
	Leveler	1,200 00		
	Rodman	1,000 00		
	Axemen, 2 at $900	1,800 00		
	Topographical Draftsman	1,800 00		
	Draftsman's Helpers, 2 at $900.	1,800 00		
	Mechanical Draftsman, half time	900 00		
	Clerk	1,050 00		
	Typewriter Copyist	900 00		
	Tappers, 2 at $1,200	2,400 00		
	Inspector of Pipe Laying, Pipes and Hydrants	1,650 00		
			$18,850 00	
471	Wages—			
	Foremen	$6,205 00		
	Assistant Foremen	4,380 00		
	Drivers	3,650 00		
	Caulkers, not to exceed $4 per day	11,680 00		
	Watchmen	2,737 50		
	Blacksmiths, not to exceed $4.50 per day	1,228 50		
	Blacksmith's Helpers	750 75		
	Bricklayers, not to exceed $5.60 per day	854 00		
	Bricklayers' Helpers	381 25		
	Pavers, not to exceed $5 per day	1,512 80		
	Rammermen, not to exceed $4 per day	1,171 20		
	Laborers	21,900 00		
			56,451 00	
472	General Supplies		1,200 00	
473	Materials for Repairs and Replacements by Departmental Labor		15,500 00	
474	Repairs and Replacements by Contract or Open Order		4,000 00	
475	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,500 00	
476	Maintenance of Automobiles, including Equipment, Care and Storage		1,000 00	
477	Purchase of Horses		500 00	
478	Forage, Shoeing and Boarding Horses		3,120 00	
479	Hired Teams, Horses and Carts		500 00	
480	Fuel		500 00	
481	Contingencies		2,000 00	
482	Fire Hydrant Rentals and Water Purchased		10,000 00	
			115,121 00	

Distribution—Water Registration, Permits and Revenue Collections.

483	Salaries and Wages—			
	Water Register		$2,500 00	
	Cashier		1,500 00	
	Clerk		1,650 00	
	Clerks, 2 at $1,500		3,000 00	
	Clerks, 2 at $1,200		2,400 00	
	Clerks, 7 at $1,050		7,350 00	
	Clerks, temporary		750 00	
	Stenographer and Typewriter		1,050 00	
	Bookkeeper		1,200 00	
	Chief Inspector		1,800 00	
	Inspectors, 2 at $1,200		2,400 00	
	Inspectors, 9 at $1,000		9,000 00	
	Messenger		1,200 00	
	Laborers		2,347 50	
			38,147 50	
				372,746 37

WATER SUPPLY—HIGH PRESSURE FIRE SERVICE STATIONS.

Administration, Office of Supervising Electrical Engineer.

484	Salaries and Wages—			
	Supervising Electrical Engineer.	$5,000 00		
	Clerk	900 00		
			$5,900 00	
485	Contingencies		100 00	
				$6,000 00

Borough of Manhattan.

486	Salaries and Wages—			
	Stationary Engineers, not to exceed $4.50 per day	$11,497 50		
	Oilers, not to exceed $3 per day	7,665 00		
	Telephone Operators, 6 at $900.	5,400 00		
	Machinist, not to exceed $4.50 per day	1,408 50		
	Machinist's Helper	782 50		
	Laborers	4,562 50		
			$31,316 00	
487	General Supplies		1,750 00	

488	Materials for Repairs and Replacements by Departmental Labor	1,500 00	
489	Repairs and Replacements by Contract or Open Order	2,000 00	
490	Fuel	500 00	
491	Telephone Service	8,060 00	
			45,066 00

Borough of Brooklyn.

492	Salaries and Wages—		
	Enginemen, not to exceed $4.50 per day	$6,570 00	
	Stationary Engineers, not to exceed $4.50 per day	11,497 50	
	Oilers, not to exceed $3 per day	13,140 00	
	Telephone Operators, 6 at $900	5,400 00	
	Machinist, not to exceed $4.50 per day	1,408 50	
	Machinist's Helper	782 50	
	Laborers	8,212 50	
			$47,011 00
493	General Supplies		2,000 00
494	Materials for Repairs and Replacements by Departmental Labor		2,250 00
495	Repairs and Replacements by Contract or Open Order		3,000 00
496	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage		200 00
497	Fuel		500 00
498	Telephone Service		5,000 00
			59,961 00
			111,027 00

HEAT, LIGHT AND POWER—BUREAUS OF LAMPS AND LIGHTING AND ELECTRICAL INSPECTION.

GENERAL ADMINISTRATION.

499	Salaries and Wages—		
	Chief Engineer of Light and Power	$7,500 00	
	Assistant Chief Engineer	5,000 00	
	Electrical Engineer	4,000 00	
	Clerk	3,000 00	
	Clerk	2,400 00	
	Clerk	1,950 00	
	Clerk	1,500 00	
	Clerks, 2 at $1,200	2,400 00	
	Clerk	900 00	
	Clerk	600 00	
	Inspector of Electricity and Gas	2,500 00	
	Inspector of Lamps and Lighting	1,800 00	
	Inspector of Lamps and Lighting	1,650 00	
	Inspectors of Lamps and Lighting, 2 at $1,350	2,700 00	
	Inspector of Light and Power	1,200 00	
	Junior Draftsman	900 00	
	Stenographers and Typewriters, 3 at $1,200	3,600 00	
	Stenographer and Typewriter	1,050 00	
			$44,650 00

HEAT, LIGHT AND POWER—BUREAU OF LAMPS AND LIGHTING.

500	Office of Chief Gas Examiner, Salaries—		
	Chief Gas Inspector	$3,000 00	
	Gas Inspectors, 12 at $1,200	14,400 00	
			17,400 00
501	Laboratory for Testing Electric Meters		1,500 00

Boroughs of Manhattan and The Bronx.

502	Salaries and Wages—		
	Clerk	$1,950 00	
	Clerk	1,050 00	
	Clerks, 2 at $900	1,800 00	
	Clerk	600 00	
	Stenographer and Typewriter	1,200 00	
	Stenographer and Typewriter	900 00	
	Topographical Draftsman	1,350 00	
	Architectural Draftsman	1,950 00	
	Draftsman's Helper	1,050 00	
	Junior Draftsman	1,050 00	
	Inspector of Electricity and Gas	2,500 00	
	Inspector of Lamps and Lighting	1,800 00	
	Inspector of Lamps and Lighting	1,650 00	
	Inspectors of Lamps and Lighting, 4 at $1,500	6,000 00	
	Inspectors of Lamps and Lighting, 17 at $1,350	22,950 00	
	Inspectors of Lamps and Lighting, 3 at $1,200	3,600 00	
	Automobile Engineman	1,500 00	
			$52,900 00
503	Salaries and Wages, Lighting Public Buildings—		
	Inspector of Electricity and Gas	$2,500 00	
	Inspectors of Lamps and Lighting, 3 at $1,500	4,500 00	
	Salaries and Wages, Lighting Public Buildings—		
	Inspector of Lamps and Lighting	1,350 00	
	Inspectors of Lamps and Lighting, 5 at $1,200	6,000 00	
	Clerk	1,200 00	
	Clerk, with knowledge of Statistics	900 00	
	Clerk	600 00	
	Stenographer and Typewriter	1,200 00	
	Stenographer and Typewriter	900 00	
	Lighters of Public Markets, 2 at $120	240 00	
	Lighter of Public Markets	360 00	
	Cleaner and Watchman	360 00	
			$20,110 00
504	General Supplies		1,200 00
505	Repairs and Replacements by Contract or Open Order		19,000 00
506	Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage		1,500 00
507	Purchase of Furniture and Fittings		500 00
508	Maintenance of Automobiles, including Equipment, Care and Storage		1,300 00
509	Hired Teams, Horses and Carts		3,500 00
510	Telephone Service		275 00
511	Contingencies		6,000 00
512	Rental of Gas Regulators, Inspections, etc.		9,000 00
513	Street and Park Lighting		1,363,680 40
514	Lighting Public Buildings		600,000 00
515	Heat and Power for City Departments, etc.		40,000 00
516	High Pressure Fire Service, Reservation of Machinery and Current		90,000 00
			$2,208,965 40

Borough of Brooklyn.

517	Salaries and Wages—		
	Clerk	$1,950 00	
	Clerk	1,200 00	
	Junior Clerk	1,050 00	
	Stenographer and Typewriter	1,200 00	
	Inspector of Lamps and Gas	2,250 00	
	Inspector of Lamps and Gas	1,500 00	
	Inspectors of Lamps and Gas, 9 at $1,350	12,150 00	
	Inspector of Lamps and Gas	1,200 00	
	Inspectors of Light and Power, 2 at $1,200	2,400 00	
			$24,900 00
518	Salaries and Wages, Lighting Public Buildings—		
	Inspector of Electricity and Gas	$2,250 00	
	Inspectors of Lamps and Gas, 2 at $1,350	2,700 00	
	Inspector of Light and Power	1,200 00	
	Stenographer and Typewriter	1,050 00	
			7,200 00
519	General Supplies		75 00
520	Repairs and Replacements by Contract or Open Order		10,000 00
521	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		200 00
522	Purchase of Furniture and Fittings		100 00
523	Forage, Shoeing and Boarding Horses		750 00
524	Telephone Service		200 00
525	Contingencies		725 00
526	Rental of Gas Regulators, Inspections, etc.		2,000 00
527	Street and Park Lighting		1,057,688 54
528	Lighting Public Buildings		190,000 00
529	Heat and Power for City Departments		25,000 00
530	High Pressure Fire Service, Reservation of Machinery and Current		45,000 00
			1,363,838 54

Borough of Queens.

531	Salaries and Wages—		
	Assistant Engineer	$2,250 00	
	Clerk	1,350 00	
	Clerk	1,050 00	
	Inspector of Lamps and Lighting	2,250 00	
	Inspectors of Lamps and Lighting, 2 at $1,500	3,000 00	
	Inspectors of Lamps and Lighting, 2 at $1,350	2,700 00	
	Inspector of Light and Power	1,200 00	
	Stenographer and Typewriter	1,200 00	
			15,000 00
532	General Supplies		250 00
533	Repairs and Replacements by Contract or Open Order		6,000 00
534	Purchase of Furniture and Fittings		750 00
535	Hire of Automobiles		1,500 00
536	Hired Teams, Horses and Carts		2,500 00
537	Telephone Service		250 00
538	Contingencies		400 00
539	Rental of Gas Regulators, Inspections, etc.		400 00
540	Street and Park Lighting		420,643 73

541	Lighting Public Buildings	34,600 00		
542	Heat and Power for City Departments	3,000 00		
				485,293 73

Borough of Richmond.

543	Salaries and Wages—			
	Clerk	$1,200 00		
	Chief Inspector of Electrical Conductors	2,250 00		
	Inspectors of Electrical Conductors, 2 at $1,350	2,700 00		
	Inspectors of Exterior Wiring, 2 at $1,200	2,400 00		
	Inspector of Lamps and Lighting	1,500 00		
	Inspectors of Lamps and Lighting, 2 at $1,200	2,400 00		
	Stenographer and Typewriter.	1,200 00		
	Clerk, with Knowledge of Typewriting	600 00		
			$14,250 00	
544	General Supplies		100 00	
545	Repairs and Replacements by Contract or Open Order		500 00	
546	Purchase of Furniture and Fittings		400 00	
547	Maintenance of Automobiles, including Equipment, Care and Storage		200 00	
548	Hire of Automobiles		1,000 00	
549	Hired Teams, Horses and Carts		500 00	
550	Telephone Service		100 00	
551	Contingencies		500 00	
552	Rental of Gas Regulators, Inspections, etc.		100 00	
553	Street and Park Lighting		192,573 10	
554	Lighting Public Buildings		22,360 00	
555	Heat and Power for City Departments		1,550 00	
				234,073 10
				4,355,720 77

Heat, Light and Power, Bureau of Electrical Inspection.

Boroughs of Manhattan and The Bronx.

556	Salaries and Wages—			
	Inspector of Electrical Conductors	$2,250 00		
	Inspector of Electrical Conductors	1,800 00		
	Inspectors of Electrical Conductors, 11 at $1,500	16,500 00		
	Inspectors of Electrical Conductors, 2 at $1,350	2,700 00		
	Inspectors of Electrical Conductors, 8 at $1,252	10,016 00		
	Clerk	1,800 00		
	Clerk	1,350 00		
	Clerks, 2 at $900	1,800 00		
	Junior Clerks, 3 at $750	2,250 00		
	Junior Clerks, 2 at $600	1,200 00		
	Stenographer and Typewriter.	1,200 00		
	Stenographer and Typewriter.	1,050 00		
	Stenographer and Typewriter.	900 00		
	Wiremen	2,191 00		
	Assistant Batteryman	1,095 50		
			$48,102 50	
557	General Supplies		300 00	
558	Purchase of Furniture and Fittings		500 00	
559	Hired Teams, Horses and Carts		4,000 00	
560	Telephone Service		75 00	
561	Contingencies		900 00	
				$53,877 50

Borough of Brooklyn.

562	Salaries and Wages—			
	Inspector of Electrical Conductors	$1,650 00		
	Inspectors of Electrical Conductors, 2 at $1,500	3,000 00		
	Inspectors of Electrical Conductors, 4 at $1,350	5,400 00		
	Inspectors of Electrical Conductors, 6 at $1,252	7,512 00		
	Inspector of Electrical Conductors	1,200 00		
	Clerk	1,350 00		
	Clerk	900 00		
	Clerks, 2 at $600	1,200 00		
	Clerk	300 00		
	Stenographer and Typewriter.	1,200 00		
			$23,712 00	
563	General Supplies		100 00	
564	Purchase of Furniture and Fittings		200 00	
565	Hired Teams, Horses and Carts		1,000 00	
566	Telephone Service		150 00	
567	Contingencies		850 00	
				26,012 00

Borough of Queens.

568	Salaries and Wages—			
	Chief Inspector of Electrical Conductors	$2,250 00		
	Inspectors of Electrical Conductors, 2 at $1,500	3,000 00		
	Inspectors of Electrical Conductors, 3 at $1,350	4,050 00		
	Salaries and Wages—			
	Inspectors of Electrical Conductors, 4 at $1,200	4,800 00		
	Lineman	1,252 00		
	Clerk	1,200 00		
	Clerk	750 00		
	Clerk	600 00		
	Stenographer and Typewriter.	900 00		
			$18,802 00	
569	General Supplies		100 00	
570	Purchase of Furniture and Fittings		500 00	
571	Hired Teams, Horses and Carts		2,800 00	
572	Telephone Service		75 00	
573	Contingencies		1,200 00	
			23,477 00	
				103,366 50
				6,943,638 52

DEPARTMENT OF PUBLIC CHARITIES.

General Administration.

Office of the Commissioner.

574	Salaries and Wages—		
	Commissioner	$7,500 00	
	First Deputy Commissioner	5,000 00	
	Secretary	3,500 00	
	Private Secretary	2,250 00	
	General Inspector	3,000 00	
	Supervising Engineer	2,400 00	
	Purchasing Agent	1,800 00	
	Hospital Physician	1,500 00	
	Confidential Stenographer	1,500 00	
	Draftsman	1,350 00	
	Inspectors of Foods, 2 at $1,200	2,400 00	
	Inspector of Foods (Egg Candler)	1,200 00	
	Dietitian	1,200 00	
	Clerks, 2 at $1,200	2,400 00	
	Clerk	1,050 00	
	Clerk	750 00	
	Hospital Clerk	720 00	
	Hospital Clerk	600 00	
	Stenographer and Typewriter	1,200 00	
	Stenographers and Typewriters, 2 at $750	1,500 00	
	Stenographer and Typewriter	600 00	
	Auto Engineman	1,200 00	
	Driver	900 00	
	Hospital Helpers	2,760 00	
	Telephone Operator	720 00	
	Telephone Operator	600 00	
	Supervising Engineer	1,800 00	
	Painters, not to exceed $4 per day	15,351 00	
	Carpenters, not to exceed $5 per day	16,570 00	
	Plumbers, not to exceed $5 per day	5,560 00	
	Steamfitters, not to exceed $5 per day	4,170 00	
	Tinsmith, not to exceed $4.50 per day	1,251 00	
	Blacksmith, not to exceed $4.50 per day	1,251 00	
			$95,553 00

Office of the Auditor.

575	Salaries and Wages—		
	Auditor	$3,300 00	
	Clerk	2,250 00	
	Clerk	1,500 00	
	Clerk	1,200 00	
	Clerks, 3 at $1,050	3,150 00	
	Clerks, 2 at $600	1,200 00	
	Bookkeeper	1,950 00	
			14,550 00

General Drug Department.

576	Salaries and Wages—		
	Chemist	$2,550 00	
	Apothecaries, 3 at $1,050	3,150 00	
	Apothecary	900 00	
	Clerk	750 00	
	Hospital Clerks, 4 at $600	2,400 00	
	Hospital Clerk	540 00	
	Watchman	500 00	
	Stenographer and Typewriter	600 00	
	Hospital Helper	480 00	
			11,870 00

Administration, Manhattan and The Bronx.

Bureau of Dependent Adults.

577	Salaries and Wages—		
	Superintendent	$2,700 00	
	Clerks, 2 at $1,500	3,000 00	
	Clerk	1,050 00	
	Clerks, 2 at $750	1,500 00	
	Clerks, 2 at $600	1,200 00	
	Hospital Clerk	600 00	
	Chief Examiner of Charitable Institutions	1,500 00	
	Examiners of Charitable Institutions, 16 at $1,200	19,200 00	
	Registrar of Records	1,500 00	
	Visitor	1,200 00	
	Visitors, 3 at $1,000	3,000 00	
	Interpreter	1,200 00	
	Stenographer and Typewriter	1,000 00	
	Hospital Helpers	10,500 00	
	Morgue Keeper	700 00	
	Pupil Examiner	480 00	
	Office Boy	300 00	
			50,630 00

Children's Bureau.

578 Salaries and Wages—

Superintendent	$2,700 00	
Clerk	1,500 00	
Clerk	1,050 00	
Clerks, 2 at $600	1,200 00	
Hospital Clerk	600 00	
Examiners of Charitable Institutions, 15 at $1,200	18,000 00	
Stenographer and Typewriter	800 00	
Stenographer and Typewriter	750 00	
Stenographer and Typewriter	600 00	
Matrons, 2 at $600	1,200 00	
Hospital Helpers	2,520 00	
		30,920 00

Departmental Steamboats, Launches and Piers.

579 Salaries and Wages—

Pilots, 2 at $1,620	$3,240 00	
Pilots, 9 at $1,400	12,600 00	
Pilot, 1 at $1,400 for 7 months	816 66	
Engineers	16,175 00	
Clerk	1,200 00	
Deckhands, 29 at $500	14,500 00	
Mates, 3 at $900	2,700 00	
Matrons, 2 at $600	1,200 00	
Hospital Helpers	3,300 00	
Cook	600 00	
Watchman	500 00	
Hospital Helper, Mechanic	600 00	
Stokers, not to exceed $3 per day	17,520 00	
		74,951 66

Storehouse, Bakery and Stables.

580 Salaries and Wages—

General Storekeeper	$2,100 00	
Clerks, 2 at $1,200	2,400 00	
Clerk	900 00	
Clerks, 2 at $750	1,500 00	
Clerk	600 00	
Bakers, 4 at $750	3,000 00	
Bakers, 3 at $700	2,100 00	
Watchman	500 00	
Hospital Helper, Mechanic	600 00	
Hospital Helpers	8,184 00	
		21,884 00

Bureau of Disinfectants.

581 Salaries—

Apothecary	$1,050 00	
Hospital Helper	480 00	
		$1,530 00
582 General Supplies		5,000 00
583 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		250 00
		6,780 00

Institutions, Manhattan and The Bronx.

City Hospital.

584 Salaries and Wages—

Superintendent	$3,000 00	
Deputy Superintendent	1,000 00	
Steward	1,200 00	
Stenographer and Typewriter	600 00	
Hospital Clerk	720 00	
Hospital Clerk	600 00	
Dietitian	600 00	
Chaplains, 2 at $450	900 00	
Trained Nurses	600 00	
Apothecary	900 00	
Apothecary	750 00	
Cook	900 00	
Cook	540 00	
Cook	480 00	
Cook	420 00	
Cooks, 2 at $360	720 00	
Cooks, 3 at $240	720 00	
Waiters, 2 at $192	384 00	
Waitresses, 3 at $240	720 00	
Waitress	192 00	
Hospital Helpers	34,000 00	
Laundress	420 00	
Butcher	360 00	
Seamstress	250 00	
Seamstresses, 5 at $204	1,020 00	
Watchman	500 00	
Barber	480 00	
Tailor	240 00	
Electrician, not to exceed $4 per day	1,460 00	
Engineman, not to exceed $4.50 per day	4,927 50	
Stokers, not to exceed $3 per day	8,760 00	
		68,363 50

New York City Training School for Nurses.

585 Salaries and Wages—

Superintendent	$1,800 00	
Deputy Superintendents, 3 at $1,200	3,600 00	
Supervising Nurse	750 00	
Trained Nurses, 12 at $600	7,200 00	
Trained Nurses, 4 at $300	1,200 00	
Pupil Nurses, $120 first year, $144 second year, $180 third year	9,360 00	
Stenographer and Typewriter	750 00	
Matron	600 00	
Salaries and Wages—		
Dietitian	600 00	
Cook	480 00	
Cook	360 00	
Waitresses, 4 at $240	960 00	
Hospital Helpers	8,350 00	
		36,010 00

New York City Home for Aged and Infirm.

586 Salaries and Wages—

Superintendent	$1,950 00	
Deputy Superintendent	1,000 00	
Apothecary	900 00	
Steward	900 00	
Supervising Nurse	750 00	
Trained Nurses, 2 at $600	1,200 00	
Nurse	180 00	
Matrons, 2 at $600	1,200 00	
Inspector	600 00	
Dietitian	600 00	
Hospital Helpers	28,400 00	
Hospital Helper Mechanic	600 00	
Cook	480 00	
Cook	300 00	
Laundress	450 00	
Chaplain	360 00	
Seamstress	240 00	
Enginemen, not to exceed $4.50 per day	3,102 50	
Stokers, not to exceed $3 per day	12,045 00	
		55,257 50

Metropolitan Hospital.

587 Salaries and Wages—

Superintendent	$3,000 00	
Deputy Superintendent	1,000 00	
Steward	1,200 00	
Apothecary	900 00	
Apothecary	720 00	
Inspector	750 00	
Dietitian	720 00	
Dietitian	600 00	
Matron	600 00	
Stenographer and Typewriter	600 00	
Trained Nurse	600 00	
Watchman	500 00	
Cook	720 00	
Cook	420 00	
Cook	360 00	
Hospital Helpers	30,000 00	
Orderly	360 00	
Seamstresses, 6 at $204	1,224 00	
Electrician, not to exceed $4 per day	1,248 00	
Enginemen, not to exceed $4.50 per day	4,745 00	
Stokers, not to exceed $3 per day	9,855 00	
		60,122 00

Metropolitan Hospital Training School.

588 Salaries and Wages—

Superintendent	$1,800 00	
Deputy Superintendent	1,200 00	
Deputy Superintendent	1,050 00	
Supervising Nurse	850 00	
Supervising Nurse	750 00	
Trained Nurses, 15 at $600	9,000 00	
Pupil Nurses, $120 first year; $144 second year; $180 third year	11,606 00	
Stenographer	750 00	
Dietitian	720 00	
Matron	600 00	
Cooks, 2 at $480	960 00	
Cook	300 00	
Watchman	500 00	
Hospital Helpers	35,000 00	
		65,086 00

New York City Children's Hospital and Schools.

589 Salaries and Wages—

Superintendent	$3,000 00	
Deputy Medical Superintendent	1,800 00	
Steward	1,200 00	
Apothecary	900 00	
Clerk	900 00	
Clerk	600 00	
Hospital Clerk	600 00	
Hospital Clerk	600 00	
Stenographer and Typewriter	750 00	
Gardener	900 00	
Supervising Nurse	850 00	
Teachers, 7 at $750	5,250 00	
Teachers, 3 at $600	1,800 00	
Trained Nurses, 7 at $600	4,200 00	
Trained Nurses, 2 at $360	720 00	
Trained Nurse	300 00	
Nurse	300 00	
Nurses, 4 at $240	960 00	
Dietitian	720 00	
Laborer	720 00	
Matron	600 00	
Cooks, 2 at $720	1,440 00	
Cook	600 00	
Cook	420 00	
Cook	360 00	
Hospital Helper, mechanic	720 00	
Hospital Helpers	63,650 00	

Salaries and Wages—

Chaplain	450 00	
Chaplain	360 00	
Orderly	420 00	
Orderly	360 00	
Seamstresses, 2 at $250	500 00	
Seamstresses, 6 at $204	1,224 00	
Laundress	240 00	
Engineers, not to exceed $4.50 per day	4,927 50	
Electrician, not to exceed $4 per day	1,460 00	
Stokers, not to exceed $3 per day	15,330 00	
		119,531 50

Municipal Lodging House.

590 Salaries and Wages—

Superintendent	$2,400 00	
Examining Physician	1,000 00	
Visitor	900 00	
Inspector	750 00	
Hospital Clerks, 2 at $600	1,200 00	
Orderly	360 00	
Hospital Helpers	3,000 00	
Enginemen, not to exceed $4.50 per day	4,927 50	
Stokers, not to exceed $3 per day	3,285 00	
		17,822 50
591 General Supplies		800,000 00
592 Materials for Repairs and Replacements by Departmental Labor		30,000 00
593 Repairs and Replacements by Contract or Open Order		80,000 00
594 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		12,000 00
595 Maintenance of Automobiles, including Equipment, Care and Storage.		2,000 00
596 Purchase of Horses		1,200 00
597 Forage, Shoeing and Boarding Horses		9,800 00
598 Fuel		150,000 00
599 Telephone Service		6,000 00
600 Contingencies		6,000 00
601 Open Air Concerts		1,000 00

ADMINISTRATION, BROOKLYN AND QUEENS.

Office of the Deputy Commissioner.

602 Salaries and Wages—

Second Deputy Commissioner	$5,000 00	
Secretary to Second Deputy Commissioner	2,100 00	
Stenographer	1,200 00	
Clerk	1,050 00	
Automobile Engineman	1,200 00	
Janitress	750 00	
Telephone Operator	480 00	
Hospital Clerk	720 00	
Hospital Helpers	1,080 00	
Stokers, not to exceed $3 per day	2,190 00	
		15,770 00

Bureau of Dependent Adults.

603 Salaries and Wages—

Superintendent	$1,200 00	
Clerk	1,950 00	
Clerk	1,800 00	
Clerk	1,200 00	
Clerk	1,050 00	
Examiners in Lunacy, 2 at $1,500	3,000 00	
Examiners of Charitable Institutions, 5 at $1,200	6,000 00	
Visitor	1,000 00	
Morgue Keeper	1,050 00	
Hospital Helper	300 00	
Registrar of Records	1,500 00	
		20,050 00

Children's Bureau.

604 Salaries and Wages—

Clerk	$1,800 00	
Clerk	1,200 00	
Examiners of Charitable Institutions, 9 at $1,200	10,800 00	
Pupil Examiner	480 00	
Pupil Examiner	360 00	
Hospital Helpers	1,260 00	
		15,900 00

INSTITUTIONS, BROOKLYN AND QUEENS.

Kings County Hospital.

605 Salaries and Wages—

General Medical Superintendent	$5,000 00	
Deputy Medical Superintendent	1,800 00	
Superintendent of Training Schools	1,800 00	
Deputy Superintendent of Training Schools	1,200 00	
Resident Physician	1,800 00	
Pathologist	1,500 00	
Chief Clerk	2,250 00	
Clerks, 3 at $1,200	3,600 00	
Clerks, 2 at $750	1,500 00	
Clerk	600 00	
Hospital Clerk	600 00	
Hospital Helper, mechanic	600 00	
Stenographer	600 00	
Apothecary	1,050 00	
Apothecary	900 00	
Apothecary	900 00	
Dietitian	900 00	
Baker	750 00	
Supervising Nurses, 4 at $750	3,000 00	
Trained Nurses, 22 at $600	13,200 00	
Pupil Nurses, $120 first year; $144 second year	8,500 00	
Morgue Keeper	480 00	

Salaries and Wages—

Cook	600 00	
Cook	480 00	
Cook	400 00	
Cook	360 00	
Cook	300 00	
Cooks, 4 at $240	960 00	
Butcher	420 00	
Hospital Helpers	39,400 00	
Watchman	480 00	
Telephone Operators, 2 at $720	1,440 00	
Telephone Operator	480 00	
Orderly	360 00	
Orderly	240 00	
Seamstresses, 2 at $250	500 00	
Waitresses, 5 at $240	1,200 00	
Waitresses, 2 at $182	384 00	
Laundresses, 6 at $240	1,440 00	
Laundress	216 00	
Laundress	192 00	
Automobile Enginemen for Ambulances, at $1,200	2,400 00	
Enginemen, not to exceed $4.50 per day	4,927 50	
Electrician, not to exceed $4 per day	1,460 00	
Stokers, not to exceed $3 per day	3,285 00	
		113,554 50

Home for Aged and Infirm.

606 Salaries and Wages—

Foreman of Laborers	$1,800 00	
Supervising Nurse	850 00	
Trained Nurse	600 00	
Nurse	300 00	
Hospital Helpers, Mechanics, 2 at $720	1,440 00	
Hospital Clerks, 2 at $600	1,200 00	
Hospital Helpers	10,000 00	
Drivers, 2 at $800	1,600 00	
Drivers, 6 at $720	4,320 00	
Baker	750 00	
Cook	720 00	
Cook	300 00	
Matrons, 2 at $600	1,200 00	
Watchman	480 00	
Chaplains, 2 at $450	900 00	
Butcher	420 00	
Orderly	360 00	
Waitress	192 00	
Enginemen, not to exceed $4.50 per day	4,927 50	
Stokers, not to exceed $3 per day	3,285 00	
		35,644 50

Cumberland Street Hospital.

607 Salaries and Wages—

Superintendent	$3,000 00	
Apothecary	900 00	
Supervising Nurse	850 00	
Supervising Nurse	750 00	
Trained Nurses, 4 at $600	2,400 00	
Pupil Nurses, $120 first year; $144 second year	2,856 00	
Hospital Helpers	6,500 00	
Matron	600 00	
Barber	480 00	
Cooks, 2 at $360	720 00	
Laundress	300 00	
Laundress	192 00	
Seamstress	180 00	
Waitress	240 00	
Waitresses, 2 at $192	384 00	
Waitress	180 00	
Enginemen	4,927 50	
Stokers, not to exceed $3 per day	3,285 00	
		28,744 50

Bradford Street Hospital.

608 Salaries and Wages—

Trained Nurses, 2 at $600	$1,200 00	
Hospital Helpers	1,400 00	
Cook	300 00	
		2,900 00

Reception Hospital, Coney Island.

609 Salaries and Wages—

Deputy Medical Superintendent	$1,800 00	
Clerk	900 00	
Clerk	600 00	
Stenographer and Typewriter	600 00	
Supervising Nurse	750 00	
Supervising Nurse	600 00	
Trained Nurses, 6 at $600	3,600 00	
Pupil Nurses, $120 first year; $144 second year	1,584 00	
Apothecary	900 00	
Telephone Operators, 2 at $480	960 00	
Matron	600 00	
Cook	600 00	
Cook	360 00	
Cook	240 00	
Waiters, 3 at $216	648 00	
Laundryman	600 00	
Laundresses, 2 at $240	480 00	
Seamstress	240 00	
Driver	500 00	
Watchman	480 00	
Elevator Attendants, 2 at $300	600 00	
Hospital Helpers	6,500 00	

Salaries and Wages—
Auto Enginemen for Ambulances, 2 at $1,200..... 2,400 00
Engineers, not to exceed $4.50 per day..... 4,927 50
Stokers, not to exceed $3 per day..... 3,285 00
34,754 50

610 General Supplies 275,000 00
611 Materials for Repairs and Replacements by Departmental Labor.... 9,000 00
612 Repairs and Replacements by Contract or Open Order..... 30,000 00
613 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage 6,000 00
614 Maintenance of Automobiles, including Equipment, Care and Storage 2,100 00
615 Purchase of Horses..... 600 00
616 Forage, Shoeing and Boarding Horses..... 5,400 00
617 Fuel 57,000 00
618 Telephone Service 5,650 00
619 Contingencies 2,000 00
620 Open Air Concerts 500 00
621 Burial of Pauper Dead..... 1,500 00

ADMINISTRATION, RICHMOND.

Bureau of Dependent Adults.

622 Salaries and Wages—
Superintendent $1,950 00
Clerk 900 00
Stenographer and Typewriter..... 600 00
Examiner of Charitable Institutions..... 1,200 00
4,650 00

New York City Farm Colony.

623 Salaries and Wages—
Superintendent $1,500 00
Hospital Physician..... 500 00
Matrons, 2 at $600..... 1,200 00
Trained Nurse..... 600 00
Cook 480 00
Seamstress 240 00
Hospital Helpers..... 9,250 00
Engineer, not to exceed $4.50 per day..... 1,642 50
15,412 50

624 General Supplies..... 38,800 00
625 Materials for Repairs and Replacements by Departmental Labor.... 2,000 00
626 Repairs and Replacements by Contract or Open Order..... 7,500 00
627 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage 1,000 00
628 Purchase of Horses..... 600 00
629 Forage, Shoeing and Boarding Horses..... 1,800 00
630 Fuel 8,000 00
631 Telephone Service..... 350 00
632 Contingencies 100 00

Miscellaneous.

633 Transportation of Paupers..... 5,000 00
634 Allowance for Poor Adult Blind..... 55,000 00
635 Clothing for Insane Patients..... 3,500 00
636 Clothing for Epileptics sent to Craig Colony..... 7,500 00
637 Donations to Grand Army Veterans..... 25,000 00
638 State Hospital for Incipient Tuberculosis..... 17,000 00
2,682,612 16

POLICE DEPARTMENT.

GENERAL ADMINISTRATION.

Office of the Commissioner and Deputy Commissioners.

639 Salaries and Wages—
Commissioner $7,500 00
First Deputy Commissioner..... 6,000 00
Second Deputy Commissioner..... 4,000 00
Third Deputy Commissioner..... 4,000 00
Fourth Deputy Commissioner..... 4,000 00
Secretary to the Commissioner..... 3,000 00
Executive Clerk to the Commissioner..... 2,100 00
Stenographer to the Commissioner..... 1,650 00
Secretary to First Deputy Commissioner.. 2,100 00
Secretary to Second Deputy Commissioner 2,100 00
Secretary to Third Deputy Commissioner.. 2,100 00
Secretary to Borough Inspector, Brooklyn. 1,500 00
Stenographer to First Deputy Commissioner 1,500 00
Stenographer to Second Deputy Commissioner 1,350 00
Stenographer to Third Deputy Commissioner 1,350 00
Photographer 912 50
Trial Stenographer 2,500 00
$47,662 50

Office of Chief Clerk and Bookkeeper.

640 Salaries and Wages—
Chief Clerk..... $5,000 00
Bookkeeper 4,000 00
First Deputy Clerk..... 3,000 00
Deputy Clerks, 2 at $3,000..... 6,000 00
Assistant Bookkeeper..... 2,700 00
Second Deputy Clerk..... 2,400 00
Deputy Clerk..... 2,400 00
Complaint Clerk..... 2,000 00
Deputy Clerks, 4 at $2,000..... 8,000 00
Deputy Clerks, 2 at $1,800..... 3,600 00
Deputy Clerk..... 1,600 00
Deputy Clerk..... 1,500 00
Deputy Clerks, 2 at $1,400..... 2,800 00
Deputy Clerk..... 1,200 00
Deputy Clerks, 21 at $1,000..... 21,000 00
Property Clerk 2,400 00
Salaries and Wages—
Assistant Property Clerk..... 1,500 00
Stenographer and Typewriter..... 2,000 00
Stenographers and Typewriters, 2 at $1,500 3,000 00
Stenographer and Typewriter..... 1,350 00
Stenographers and Typewriters, 4 at $1,200 4,800 00
Messenger 900 00
83,150 00
$130,812 50

ADMINISTRATION.

Telegraph Bureau.

641 Salaries and Wages—
Expert $3,000 00
Wireman 1,200 00
Batteryman 1,200 00
Linemen, 4 at $1,000..... 4,000 00
$9,400 00

Steamer "Patrol."

642 Salaries and Wages—
Chief Engineer $1,500 00
Assistant Engineer 1,320 00
Firemen 3,600 00
Oilers 1,560 00
Deck Hands 2,160 00
Cook 600 00
Steward 360 00
Cabin Boy 240 00
11,340 00

Mechanics and Laborers.

643 Salaries and Wages—
Foreman of Mechanics..... $1,500 00
Carpenters, not to exceed $5 per day..... 12,520 00
Plumbers, not to exceed $5 per day..... 6,260 00
Painters, not to exceed $4 per day..... 3,756 00
Roofers (Metal), not to exceed $4.50 per day 4,225 50
Foreman Printer 1,820 00
Elevator Men, 2 at $75 per month..... 1,800 00
Laborers 8,212 50
Cleaners, Headquarters, 13 at $45 per month 7,020 00
Male Cleaners, Station House, 25 at $600.. 15,000 00
Building Inspector 3,000 00
Matron, Central Park Station..... 600 00
Job Compositors, not to exceed $3.50 per day 6,573 00
Pressman, not to exceed $4 per day..... 1,252 00
Feeder, $2.66 2-3 per day..... 834 67

New Headquarters Building.

Chief Engineer 1,500 00
Assistant Engineers, 3 at $1,200..... 3,600 00
Firemen, not to exceed $3 per day..... 2,190 00
Coal Passers, 3 at $2.50 per day..... 2,737 50
Electrician 1,200 00
Elevator Men, 4 at $900..... 3,600 00
89,201 17

Department Stables.

644 Salaries and Wages—
Foreman of Stables..... $2,000 00
Hostlers, 66 at $2.50 per day..... 60,225 00
Drivers, 4 at $2.50 per day..... 3,130 00
Harnessmaker, not to exceed $4 per day.. 1,252 00
66,607 00

645 General Supplies 84,250 00
646 Materials for Repairs and Replacements by Departmental Labor 12,000 00
647 Repairs and Replacements by Contract or Open Order.. 55,300 00

648 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage—
Horse Equipments and Harness..... $7,500 00
Repairs to Harness and Equipments..... 750 00
Patrol Wagons 750 00
Carriages 940 00
Repairs to Wagons and Carriages..... 7,500 00
Bicycles 1,500 00
Motor Cycles 1,540 00
Repairs to Bicycles and Motor Cycles..... 6,000 00
26,480 00

649 Forage, Shoeing and Boarding Horses—
Forage $63,500 00
Shoeing Horses 38,000 00
Boarding Horses 95,500 00
Veterinary Services 8,000 00
205,000 00

650 Purchase of Furniture and Fittings..... 13,500 00
651 Maintenance of Automobiles, including Equipment, Care and Storage 9,000 00
652 Purchase of Horses..... 24,375 00
653 Fuel 58,600 00
654 Telephone Service 60,000 00
655 Contingencies 52,000 00
656 Police Pension Fund..... 600,000 00
1,377,053 17

Police Fund, Uniformed Force, Surgeons, Etc.

657 Salaries and Wages—
Captain detailed Chief Inspector.....
Captains formerly Inspectors.....
Captains detailed Inspectors..... $311,750 00
Captains .....

Salaries and Wages—			
Lieutenants		1,256,000 00	
Sergeants		879,000 00	
Detectives, 1st Grade		93,150 00	
Patrolmen		10,693,231 94	
Chief Surgeon		3,500 00	
Surgeons		84,000 00	
Doormen		194,000 00	
Matrons		70,000 00	
Superintendent of Telegraph and Electrical Service		4,000 00	
Assistant Superintendent of Telegraph and Electrical Service		3,000 00	
Chief Lineman		1,500 00	
Linemen		7,200 00	
Boiler Inspectors		2,600 00	
		13,602,931 94	
			15,110,797 61

BOARD OF ELECTIONS.

General Administration.

658	Salaries—		
	Commissioners of Elections, 4 at $5,000	$20,000 00	
	Chief Clerk of Department	3,000 00	
	Deputy Chief Clerk of Department	2,700 00	
	Chief Clerk, Borough of Manhattan	3,000 00	
	Chief Clerk, Borough of Brooklyn	2,500 00	
	Chief Clerk, Borough of The Bronx	2,200 00	
	Chief Clerk, Borough of Queens	1,850 00	
	Chief Clerk, Borough of Richmond	1,400 00	
	Deputy Chief Clerk, Borough of Manhattan	2,250 00	
	Deputy Chief Clerk, Borough of Brooklyn	2,250 00	
	Deputy Chief Clerk, Borough of The Bronx	1,750 00	
	Deputy Chief Clerk, Borough of Queens	1,300 00	
	Deputy Chief Clerk, Borough of Richmond	1,200 00	
	Secretary to Commissioner	2,000 00	
	Secretary to Commissioner	1,200 00	
	Stenographer	1,500 00	
	Stenographer	1,200 00	
	Clerk	2,500 00	
	Clerks, 3 at $2,000	6,000 00	
	Clerk	1,800 00	
	Clerks, 4 at $1,700	6,800 00	
	Clerk	1,650 00	
	Clerk	1,600 00	
	Clerks, 3 at $1,500	4,500 00	
	Clerks, 3 at $1,450	4,350 00	
	Clerks, 10 at $1,400	14,000 00	
	Clerks, 3 at $1,300	3,900 00	
	Clerks, 3 at $1,200	3,600 00	
	Clerk	900 00	
			$102,900 00
659	For Employment of Temporary Clerks	22,500 00	
660	General Supplies	503,700 00	
661	Repairs and Replacements by Contract or Open Order	7,500 00	
662	Purchase of Furniture and Fittings	1,000 00	
663	Telephone Service	1,400 00	
664	Contingencies	8,000 00	
665	Special Contract Obligations	409,750 00	
			1,056,750 00

BOARD OF CITY RECORD.

City of New York.

Administration.

666	Salaries—			
	Supervisor	$5,000 00		
	Deputy Supervisor	2,500 00		
	Secretary and Chief Clerk	2,500 00		
	Bookkeeper	2,550 00		
	Bookkeeper	1,500 00		
	Advertising Expert	2,100 00		
	Examiner	1,650 00		
	Examiner	1,500 00		
	Stenographer and Book Typewriter	1,500 00		
	Book Typewriter	900 00		
	Clerks, 2 at $1,200	2,400 00		
	Junior Clerk	600 00		
	Storekeeper	1,800 00		
	Clerk	480 00		
	Clerk	1,200 00		
	Book Typewriting Copyist	750 00		
	Clerk	300 00		
	Laborer	720 00		
			$29,950 00	
667	General Supplies		500 00	
668	Telephone Service		500 00	
669	Contingencies		1,500 00	
670	Delivering Supplies to Departments		4,000 00	
				$36,450 00
671	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks		550,000 00	
672	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements		105,000 00	
673	Blank Books		155,000 00	
674	Publication of the City Record		350,000 00	
	Arrearages for City Departments, Bureaus and Courts.			
675	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets, Printed Blanks and Blank Books		150,000 00	
676	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements		5,000 00	
				1,351,450 00

DEPARTMENT OF STREET CLEANING.

General Administration.

677	Salaries and Wages, Office of the Commissioner—			
	Commissioner	$7,500 00		
	General Superintendent	3,000 00		
	Assistant General Superintendent	2,500 00		
	Secretary to the Commissioner	3,000 00		
	Stenographer	1,500 00		
	Messenger	1,200 00		
	Automobile Enginemen, 2 at $1,200	2,400 00		
	Drivers, 4 at $800	3,200 00		
	Drivers, extra pay for Sundays at 25 cents per hour	416 00		
	District Superintendent	2,100 00		
	Section Foremen, 2 at $1,200	2,400 00		
	Assistant Section Foreman	900 00		
	Stableman	760 00		
			$30,876 00	
678	Salaries and Wages, Office of the Chief Clerk and Bookkeeper—			
	Chief Clerk	$3,600 00		
	Chief Bookkeeper	3,000 00		
	Law Clerk	3,000 00		
	Clerks, 2 at $3,000	6,000 00		
	Clerk	2,700 00		
	Clerk	2,400 00		
	Clerk	2,250 00		
	Clerks, 2 at $2,100	4,200 00		
	Clerk	1,800 00		
	Clerks, 4 at $1,650	6,600 00		
	Clerks, 7 at $1,500	10,500 00		
	Clerks, 2 at $1,350	2,700 00		
	Clerks, 4 at $1,200	4,800 00		
	Clerks, 3 at $1,050	3,150 00		
	Clerks, 8 at $900	7,200 00		
	Clerks, 5 at $750	3,750 00		
	Clerk	540 00		
	Telephone Switchboard Operator	900 00		
	Messenger	900 00		
	Stenographers, 4 at $1,200	4,800 00		
	Stablemen, 4 at $760	3,040 00		
			77,830 00	
679	Salaries and Wages, Office of Medical Examiners—			
	Medical Examiners, 3 at $1,800		5,400 00	
680	Salaries and Wages, Office of Veterinarians—			
	Veterinarians, 6 at $1,500	$9,000 00		
	Apothecary	1,200 00		
	Stableman	760 00		
			10,960 00	
681	Salaries and Wages, Office of the Master Mechanic—			
	Master Mechanic	$1,800 00		
	Clerks, 4 at $1,200	4,800 00		
	Automobile Engineman	1,200 00		
			7,800 00	
682	Salaries and Wages, Office of the Superintendent of Final Disposition—			
	Superintendent of Final Disposition	$2,500 00		
	Assistant Superintendent of Final Disposition	1,500 00		
	Clerk	1,650 00		
	Dump Inspectors, 4 at $1,200	4,800 00		
	Driver	800 00		
	Driver, extra pay for Sundays at 25 cents per hour	104 00		
			11,354 00	
				$144,220 00
683	General Supplies		$1,500 00	
684	Telephone Service		3,300 00	
685	Contingencies		1,285 00	
686	Materials for Repairs and Replacements by Departmental Labor		500 00	
687	Repairs and Replacements by Contract or Open Order		500 00	
688	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		500 00	
689	Purchase of Furniture and Fittings		200 00	
690	Maintenance of Automobiles, including Equipment, Care and Storage—			
	Shoes and Tubes, etc	$2,000 00		
	Storage and Garage Supplies	700 00		
			2,700 00	
691	Purchase of Horses		500 00	
692	Forage, Shoeing and Boarding Horses—			
	Forage	$2,628 00		
	Shoeing Horses and Pads	247 68		
	Medicine	100 00		
			2,975 68	
				13,960 68
				$158,180 68

ADMINISTRATION, BOROUGH OF MANHATTAN.

693 Salaries and Wages, Office of the Deputy Commissioner—

Deputy Commissioner	$5,000 00	
Automobile Engineman	1,200 00	
Section Foreman	1,200 00	
Driver	800 00	
Driver, extra pay for Sundays at 25 cents per hour	104 00	
Stablemen, 12 at $760	9,120 00	
Stablemen, extra pay for Sundays at 25 cents per hour	240 00	
		$17,664 00

694 Salaries and Wages, Division of Mechanical Work—

Automobile Enginemen, 2 at $1,200	$2,400 00	
Blacksmiths, not to exceed $4.50 per day	16,902 00	
Harnessmakers, not to exceed $4 per day	16,276 00	
Machinists, not to exceed $4.50 per day	2,817 00	
Carpenters, not to exceed $5 per day	17,215 00	
Wheelwrights, not to exceed $3 50 per day	8,764 00	
Painters, not to exceed $4 per day	6,260 00	
Painters and Letterers, not to exceed $4 per day	2,504 00	
Painters and Stripers, not to exceed $4 per day	1,252 00	
Painters, House, not to exceed $4 per day	2,504 00	
Stripers, not to exceed $4 per day	1,252 00	
Cabinetmakers, not to exceed $4 per day	2,504 00	
Ship Calkers, not to exceed $3.75 per day	5,868 75	
Riggers, not to exceed $3.75 per day	3,521 25	
Plumbers, not to exceed $5 per day	3,130 00	
Tinsmiths, not to exceed $4.50 per day	7,042 50	
Masons, not to exceed $5 per day	1,565 00	
Bricklayers, not to exceed $5.60 per day	3,505 60	
Carriage Upholsterer, not to exceed $4 per day	1,252 00	
Sawyer, not to exceed $4 per day	1,252 00	
Housesmith, not to exceed $4.80 per day	1,502 40	
Stationary Engineer	1,408 50	
Machinists' Helpers	939 00	
Blacksmiths' Helpers, not to exceed $3 per day	15,963 00	
Plumbers' Helpers	939 00	
Masons' Helpers	939 00	
Mechanics' Helpers	30,987 00	
		160,465 00

695 Salaries and Wages, Division of Sweeping—

District Superintendents, 11 at $2,100	$23,100 00	
Section Foremen, 69 at $1,200	82,800 00	
Assistant Section Foremen, 123 at $900	110,700 00	
Driver	800 00	
Driver, extra pay for Sundays at 25 cents per hour	52 00	
Sweepers, at $780	1,379,000 00	
Sweepers, extra pay for Sundays at 25 cents per hour.	50,000 00	
Section Station Keepers, at $780	39,780 00	
Section Station Keepers, extra pay for Sundays at 25 cents per hour	2,600 00	
Custodians of Yards, at $780.	2,340 00	
Custodians of Yards, extra pay for Sundays	400 00	
Machine and Sprinkling Cart Drivers, at $800	58,400 00	
Machine and Sprinkling Cart Drivers, extra pay for Sundays at 25 cents per hour	1,500 00	
		1,751,472 00

696 Salaries and Wages, Division of Carting and Stable—

Stable Foremen, 11 at $1,500.	$16,500 00	
Assistant Stable Foremen, 11 at $1,000	11,000 00	
Assistant Stable Foremen, 28 at $900	25,200 00	
Salaries and Wages, Division of Carting and Stable—		
Drivers, at $800	621,000 00	
Drivers, extra pay for Sundays at 25 cents per hour	24,000 00	
Hostlers, at $800	101,600 00	
Hostlers, extra pay for Sundays at $2.30 each	15,787 20	
Stablemen, at $760	99,560 00	
Stablemen, extra pay for Sundays at 25 cents per hour	12,000 00	
		926,647 20

697 Salaries and Wages, Division of Final Disposition—

Dump Inspectors, 20 at $1,200	$24,000 00	
Assistant Dump Inspectors, 20 at $900	18,000 00	
Scowmen, at $2.50 per day	47,450 00	
Boardmen, 28 at $800	22,400 00	
Incinerators, Wiremen, not to exceed $4.50 per day	4,927 50	
Steam Dumpers, Compensation of Crews of	3,991 52	
Labor at Rikers Island, Incinerators, etc	2,000 00	
		122,769 02
		$2,979,017 22

698 General Supplies—

Push Brooms	$25,000 00	
Sundries	11,995 00	
		$36,995 00

699 Material for Repairs and Replacements by Departmental Labor—

Lumber	$20,000 00	
Hardware, Iron and Steel	12,000 00	
Castings	8,000 00	
Cart and Harness Supplies	11,000 00	
Automobile Supplies	900 00	
Paints, Oils, etc	5,000 00	
Rope	8,000 00	
Sundries	10,600 00	
		75,500 00

700 Repairs and Replacements by Contract or Open Order—

Automobile Repairs	$1,000 00	
Broom Blocks, refilling	15,000 00	
Scow and Dumper Repairs	15,000 00	
Sundries	10,405 00	
		41,405 00

701 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage—

Ash, Paper, Rubbish and Sprinkling Cans	$11,950 00	
Can and Bag Carriers	3,000 00	
Carts, Carriages and Bicycles.	20,000 00	
Collars, Pipe, Harness, Whips and Blankets	12,000 00	
Hose	5,000 00	
Sweeping Machines	5,000 00	
Sundries	5,975 00	
		62,925 00

702 Special Contract Obligations—

Disposal of Garbage, including Towing and Unloading.	$148,000 00	
Disposal of Ashes, Street Sweepings and Rubbish, including Towing and Unloading and Hired Scows	430,000 00	
Royalty on Steam Dumpers	1,800 00	
Broadway Contract	20,075 00	
		599,875 00
703 Fuel		8,000 00
704 Hired Teams, Horses and Carts		5,000 00
705 Telephone Service		5,800 00
706 Contingencies		1,100 00
707 Purchase of Furniture and Fittings		500 00

708 Maintenance of Automobiles, including Equipment, Care and Storage—

Shoes and Tubes, etc	$1,000 00	
Storage and Garage Supplies.	700 00	
		1,700 00
709 Purchase of Horses		49,500 00

710 Forage, Shoeing and Boarding Horses—

Forage	260,172 00	
Shoeing and Pads	29,702 32	
Medicine	2,100 00	
Use of Ambulance	50 00	
		292,024 32
711 Removal of Snow and Ice		5,000 00
		1,185,324 32
		4,164,341 54

ADMINISTRATION, BOROUGH OF BROOKLYN.

712 Salaries and Wages, Office of the Deputy Commissioner—

Deputy Commissioner	$5,000 00	
Clerk	2,100 00	
Clerk	1,650 00	
Clerks, 2 at $750	1,500 00	
Stenographers and Typewriters, 2 at $1,200	2,400 00	
Messenger	1,200 00	
Telephone Switchboard Operator	900 00	
Automobile Engineman	1,200 00	
District Superintendents, 2 at $2,100	4,200 00	
Section Foreman	1,200 00	
Stable Foreman	1,500 00	
Stablemen, 11 at $760	8,360 00	
Stablemen, extra pay for Sundays at 25 cents per hour	180 00	
Drivers, 2 at $800	1,600 00	
Drivers, extra pay for Sundays at 25 cents per hour	104 00	
		$33,094 00

713 Salaries and Wages, Division of Mechanical Work—

Blacksmiths, not to exceed $4.50 per day	$8,451 00	
Harnessmakers, not to exceed $4 per day	10,016 00	
Machinists, not to exceed $4.50 per day	1,408 50	
Carpenters, not to exceed $5 per day	10,955 00	
Wheelwrights, not to exceed $3.50 per day	4,382 00	
Painters, not to exceed $4 per day	2,504 00	
Painters and Letterers, not to exceed $4 per day	1,252 00	
Plumbers, not to exceed $5 per day	3,130 00	
Tinsmiths, not to exceed $4.50 per day	2,817 00	
Stoker, not to exceed $3 per day	1,017 00	
Foreman of Mechanics	1,408 50	
Blacksmith's Helpers, not to exceed $3 per day	12,207 00	
Mechanics' Helpers	17,841 00	
		77,389 00

714 Salaries and Wages, Division of Sweeping—

District Superintendents, 5 at $2,100	$10,500 00	
Section Foremen, 43 at $1,200	51,600 00	
Assistant Section Foremen, 89 at $900	80,100 00	
Sweepers, at $780	702,000 00	
Sweepers, extra pay for Sundays at 25 cents per hour	10,000 00	
Section Station Keepers, at $780	23,400 00	
Section Station Keepers, extra pay for Sundays at 25 cents per hour	500 00	
Custodian of Yards	780 00	
Custodian of Yards, extra pay for Sundays at 25 cents per hour	50 00	
Machine and Sprinkling Cart Drivers, at $800	45,000 00	
Machine and Sprinkling Cart Drivers, extra pay for Sundays at 25 cents per hour	200 00	
		924,130 00

715 Salaries and Wages, Division of Carting and Stable—

Stable Foremen, 8 at $1,500	$12,000 00	
Assistant Stable Foremen, 9 at $1,000	9,000 00	
Assistant Stable Foremen, 15 at $900	13,500 00	
Drivers, at $800	480,000 00	
Drivers, extra pay for Sundays at 25 cents per hour	9,000 00	
Hostlers, at $800	69,600 00	
Hostlers, extra pay for Sundays at $2.30 each	10,644 40	
Stablemen, at $760	68,400 00	
Stablemen, extra pay for Sundays at 25 cents per hour	6,600 00	
		678,744 40

716 Salaries and Wages, Division of Final Disposition—

Dump Inspectors, 15 at $1,200	$18,000 00	
Assistant Dump Inspectors, 20 at $900	18,000 00	
Scowmen, at $2.50 per day	3,650 00	
Boardmen, 9 at $800	7,200 00	
		46,850 00
		1,760,207 40

717 General Supplies—

Push Brooms	$9,600 00	
Sundries	6,000 00	
		$15,600 00

718 Material for Repairs and Replacements by Departmental Labor—

Lumber	$5,000 00	
Hardware, Iron and Steel	5,000 00	
Castings	6,000 00	
Cart and Harness Supplies	9,000 00	
Automobile Supplies	300 00	
Paints, Oils, etc	3,000 00	
Rope	1,000 00	
Sundries	6,500 00	
		35,800 00

719 Repairs and Replacements by Contract or Open Order—

Automobile Repairs	$300 00	
Broom Blocks, refilling	15,000 00	
Sundries	2,276 00	
		17,576 00

720 Apparatus—Machinery, Vehicles, Harness, etc., Including Care and Storage—

Cans—Ash, Paper, Rubbish and Sprinkling	$3,900 00	
Can and Bag Carriers	1,000 00	
Carts, Carriages and Bicycles	10,000 00	
Collars, Pipe, Harness, Whips and Blankets	8,000 00	
Hose	1,000 00	
Sweeping Machines	3,000 00	
Sundries	1,650 00	
		28,550 00

721 Special Contract Obligations—

Disposal of Garbage, including Towing and Unloading	$19,444 00	
Disposal of Ashes, Street Sweepings and Rubbish, including Towing and Unloading and Hired Scows	450,000 00	
		469,444 00
722 Fuel		3,500 00
723 Hired Teams, Horses and Carts		5,000 00
724 Telephone Service		4,500 00
725 Contingencies		800 00
726 Purchase of Furniture and Fittings		300 00

727 Maintenance of Automobiles, including Equipment, Care and Storage—

Shoes and Tubes, etc	$500 00	
Storage and Garage Supplies	450 00	
		950 00
728 Purchase of Horses		32,500 00

729 Forage, Shoeing and Boarding Horses—

Forage	$213,160 00	
Shoeing and Pads	17,000 00	
Medicine	1,800 00	
Use of Ambulance	50 00	
		232,010 00
730 Removal of Snow and Ice		5,000 00
		851,530 00
		2,611,737 40

ADMINISTRATION, BOROUGH OF THE BRONX.

731 Salaries and Wages, Office of the Deputy Commissioner—

Deputy Commisioner	$5,000 00	
Clerk	1,200 00	
Stenographer and Typewriter	1,200 00	
Automobile Engineman	1,200 00	
Driver	800 00	
Driver, extra pay for Sundays at 25 cents per hour	52 00	
Stablemen, at $760	1,520 00	
Stablemen, extra pay for Sundays at 25 cents per hour	60 00	
		$11,032 00

732 Salaries and Wages, Division of Mechanical Work—

Blacksmiths, not to exceed $4.50 per day	$2,817 00	
Harnessmakers, not to exceed $4 per day	2,504 00	
Carpenter, not to exceed $5 per day	1,565 00	
Wheelwright, not to exceed $3.50 per day	1,095 50	
Striper, not to exceed $4 per day	1,252 00	
Plumbers, not to exceed $5 per day	1,565 00	
Tinsmith, not to exceed $4.50 per day	1,408 50	
Blacksmiths' Helpers, not to exceed $3 per day	1,878 00	
Mechanics' Helpers	3,756 00	
		17,841 00

733	Salaries and Wages, Division of Sweeping—			
	District Superintendents, 2 at $2,100	$4,200 00		
	Section Foremen, 9 at $1,200	10,800 00		
	Assistant Section Foremen, 11 at $900	9,900 00		
	Sweepers, at $780	188,220 00		
	Sweepers, extra pay for Sundays at 25 cents per hour	5,000 00		
	Section Station Keepers, at $780	4,680 00		
	Section Station Keepers, extra pay for Sundays	300 00		
	Machine and Sprinkling Cart Drivers, at $800	9,000 00		
	Machine and Sprinkling Cart Drivers, extra pay for Sundays at 25 cents per hour	200 00		
	Driver	800 00		
	Driver, extra pay for Sundays at 25 cents per hour	52 00		
			233,152 00	
734	Salaries and Wages, Division of Carting and Stable—			
	Stable Foremen, 2 at $1,500	$3,000 00		
	Assistant Stable Foremen, 2 at $1,000	2,000 00		
	Assistant Stable Foremen, 4 at $900	3,600 00		
	Drivers, at $800	92,000 00		
	Drivers, extra pay for Sundays at 25 cents per hour	3,000 00		
	Hostlers, at $800	14,400 00		
	Hostlers, extra pay for Sundays at $2.30 each	2,750 80		
	Stablemen, at $760	13,680 00		
	Stablemen, extra pay for Sundays, at 25 cents per hour	1,400 00		
			135,830 80	
735	Salaries and Wages, Division of Final Disposition—			
	Dump Inspectors, 4 at $1,200	$4,800 00		
	Assistant Dump Inspectors, 3 at $900	2,700 00		
	Scowmen, at $2.50 per day	2,737 50		
	Boardmen, 6 at $800	4,800 00		
			15,037 50	
				$412,893 30
736	General Supplies—			
	Push Brooms	$3,800 00		
	Sundries	1,929 00		
			$5,729 00	
737	Material for Repairs and Replacements by Departmental Labor—			
	Lumber	$1,500 00		
	Hardware, Iron and Steel	2,600 00		
	Cart and Harness Supplies	4,500 00		
	Automobile Supplies	300 00		
	Paints, Oils, etc.	900 00		
	Rope	200 00		
	Sundries	1,800 00		
			11,800 00	
738	Repairs and Replacements by Contract or Open Order—			
	Automobile Repairs	$200 00		
	Broom Blocks, refilling	1,500 00		
	Sundries	357 00		
			2,057 00	
739	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage—			
	Cans—Ash, Paper, Rubbish and Sprinkling	$2,500 00		
	Can and Bag Carriers	500 00		
	Carts, Carriages and Bicycles	4,305 00		
	Collars, Pipe, Harness, Whips and Blankets	1,400 00		
	Sweeping Machines and Sprinkling Carts	1,600 00		
	Sundries	805 00		
			11,110 00	
740	Special Contract Obligations—			
	Disposal of Garbage, including Towing and Unloading	$53,733 33		
	Disposal of Ashes, Street Sweepings and Rubbish, including Towing and Unloading	10,000 00		
			63,733 33	
741	Hired Teams, Horses and Carts		20,000 00	
742	Fuel		650 00	
743	Telephone Service		500 00	
744	Contingencies		300 00	
745	Purchase of Furniture and Fittings		100 00	
746	Maintenance of Automobiles, including Equipment, Care and Storage—			
	Shoes and Tubes, etc.	$900 00		
	Storage and Garage Supplies.	300 00		
			1,200 00	
747	Purchase of Horses		16,250 00	
748	Forage, Shoeing and Boarding Horses—			
	Forage	$43,800 00		
	Shoeing and Pads	4,080 00		
	Medicine	900 00		
			48,780 00	
749	Removal of Snow and Ice		2,000 00	
				184,209 33
				597,102 63
				7,531,362 25

FIRE DEPARTMENT.

General Administration, Manhattan, The Bronx and Richmond.

Office of the Commissioner.

750	Salaries and Wages—		
	Commissioner	$7,500 00	
	Deputy Commissioner	5,000 00	
	Secretary to Department	4,800 00	
	Assistant Secretary to Department	3,500 00	
	Secretary to Commissioner	2,500 00	
	Clerk	3,000 00	
	Clerk	2,400 00	
	Clerks, 2 at $1,800	3,600 00	
	Clerks, 2 at $1,500	3,000 00	
	Clerks, 2 at $1,200	2,400 00	
	Clerks, 2 at $900	1,800 00	
	Stenographer and Typewriter	1,800 00	
	Stenographer and Typewriter	1,350 00	
	Stenographers and Typewriters, 3 at $1,200	3,600 00	
	Stenographer and Typewriter	1,050 00	
	Bookkeeper	1,800 00	
	Storekeeper	1,500 00	
	Engineman	1,642 50	
	Inspector of Fuel	1,500 00	
	Messenger	1,200 00	
	Watchmen, 2 at $1,100	2,200 00	
	Stokers, 2 at $1,095	2,190 00	
	Laborers	10,672 50	
	Elevator Attendants, 2 at $912.50	1,825 00	
	Cleaners, 2 at $360	720 00	
			$72,550 00

Bureau of Combustibles.

751	Salaries and Wages—		
	Inspector of Combustibles	$3,000 00	
	Cashier	2,000 00	
	Oil Surveyors, 16 at $1,500	24,000 00	
	Stenographer and Typewriter	1,500 00	
	Clerk	1,500 00	
	Clerk	1,200 00	
	Clerk	900 00	
			34,100 00

Bureau of Fire Marshal.

752	Salaries and Wages—		
	Fire Marshal	$3,000 00	
	Assistant Fire Marshal	2,000 00	
	Assistant Fire Marshals, 4 at $1,800	7,200 00	
	Assistant Fire Marshals, 5 at $1,500	7,500 00	
	Clerk	1,500 00	
	Stenographer and Typewriter	1,500 00	
	Interpreter	1,500 00	
			24,200 00

Repair Shops.

753	Salaries and Wages—		
	Bookkeeper	$1,200 00	
	Clerks, 2 at $1,050	2,100 00	
	Clerk	900 00	
	Clerks, 3 at $480	1,440 00	
	Drivers, 3 at $1,000	3,000 00	
	Drivers, 2 at $912	1,824 00	
	Elevator Man	900 00	
	Foreman Hostler	1,200 00	
	Hostlers, 5 at $912	4,560 00	
	Foremen, Repair Shops	3,390 00	
	Foremen Laborers, 2 at $1,200	2,400 00	
	Laborers	6,688 00	
	Watchmen, 2 at $912.50	1,825 00	
	Brass Finishers, $4 per day	6,080 00	
	Boiler Makers, $3.50 per day	1,064 00	
	Foreman Blacksmith, $4.50 per day	1,368 00	
	Blacksmiths, not to exceed $4.50 per day	6,840 00	
	Blacksmiths' Helpers, not to exceed $3 per day	3,648 00	
	Carriage Body Maker, $4 per day	1,216 00	
	Carpenters, not to exceed $5 per day	6,080 00	
	Core Makers, $3.50 per day	1,064 00	
	Foreman Harnessmaker, $4 per day	1,216 00	
	Harnessmakers, not to exceed $4 per day	2,432 00	
	Hose Repairers, $3.50 per day	4,256 00	
	Lamp Maker, $4 per day	1,216 00	
	Mechanic, $3.50 per day	1,064 00	
	Foreman Machinist, $4.50 per day	1,368 00	
	Machinists, not to exceed $4.50 per day.	17,784 00	

	Salaries and Wages—		
	Machinists' Helpers, $2.25 per day.....	2,052 00	
	Machinists' Apprentice, $1.75 per day...	532 00	
	Moulders, $4 per day.....	3,648 00	
	Nickel Platers, $4 per day.....	3,648 00	
	Pattern Makers, $4 per day.....	2,432 00	
	Foreman Painter, $4.50 per day.....	1,368 00	
	Painters, not to exceed $4 per day....	2,432 00	
	Wagon Painter, $4 per day.....	1,216 00	
	Carriage Painters, $4 per day.....	2,432 00	
	Painters and Stripers, $4.50 per day....	4,104 00	
	Stripers, $4 per day.....	4,864 00	
	House Painter, not to exceed $4 per day	1,216 00	
	Painter and Letterer, $4 per day.....	1,216 00	
	Rubber Tire Repairers.....	4,256 00	
	Stokers, not to exceed $3 per day.....	1,824 00	
	Foreman Steamfitter, $5 per day.....	1,520 00	
	Steamfitters, not to exceed $5 per day..	3,040 00	
	Foreman Saw Filer, $4 per day.....	1,216 00	
	Toolman, $4 per day.....	1,216 00	
	Upholsterer, not to exceed $4 per day..	1,216 00	
	Varnisher, not to exceed $4 per day....	1,216 00	
	Foreman Wheelwright, $4.50 per day...	1,368 00	
	Wheelwrights, not to exceed $3.50 per day	5,320 00	
	Engineer, not to exceed $4.50 a day.....	1,368 00	
	Electrician, not to exceed $4 a day.....	1,216 00	
			144,059 00

Hospital and Training Stables.

754	Salaries and Wages—		
	Veterinarian	$2,500 00	
	Foreman Hostler.....	1,200 00	
	Hostlers, 8 at $912.....	7,296 00	
	Drivers, 5 at $1,000.....	5,000 00	
	Drivers, 2 at $912.....	1,824 00	
	Stablemen, 4 at $730.	2,920 00	
	Foreman of Laborers.....	1,200 00	
			21,940 00

Office of Superintendent of Buildings.

755	Salaries and Wages—		
	Superintendent of Buildings.....	$3,000 00	
	Assistant Superintendent of Buildings..	2,100 00	
	Engineman, not to exceed $4.50 per day.	1,368 00	
	Clerk	1,650 00	
	Clerk	900 00	
	Drivers, 2 at $1,000.....	2,000 00	
	Driver	912 00	
	Laborer	912 50	
	Carpenters, not to exceed $5 per day...	10,640 00	
	Plumbers, not to exceed $5 per day.....	4,560 00	
	Tinsmiths, not to exceed $4.50 per day..	4,104 00	
	Painters, not to exceed $4 per day.....	2,432 00	
	Caulker, $3.50 per day.....	1,064 00	
	Ship Caulker, $3.50 per day.....	1,064 00	
	Pipefitter's Helper, $2.50 per day.....	760 00	
	Foreman House Painter, $4.50 per day..	1,368 00	
	Varnisher, not to exceed $4 per day....	1,216 00	
	House Painter, not to exceed $4 per day	1,216 00	
			41,266 50
			$338,115 50

ADMINISTRATION, BOROUGH OF MANHATTAN.

Bureau of Chief of Department.

756	Salaries and Wages—		
	Chief of Department.....	$10,000 00	
	Deputy Chiefs of Department, 6 at $4,200	25,200 00	
	Deputy Chief in Charge of Marine Division	4,200 00	
	Battalion Chiefs, 20 at $3,300.....	66,000 00	
	Medical Officers, 4 at $3,300.....	13,200 00	
	Chaplains, 2 at $1,000.....	2,000 00	
	Clerk	1,350 00	
	Clerk	1,200 00	
	Clerks, 2 at $900.....	1,800 00	
	Draftsman	1,350 00	
	Stenographer and Typewriter.....	1,500 00	
	Stenographer and Typewriter.....	1,200 00	
		1,200 00	
			$129,000 00

Engine and Hook and Ladder Companies.

757	Salaries and Wages—		
	Foremen, 102 at $2,160.....	$220,320 00	
	Assistant Foremen, 161 at $1,800.....	289,800 00	
	Engineers of Steamers, 196 at $1,600...	313,600 00	
	Firemen of all grades, including Mandatory Increases.....	1,938,800 00	
	Pilots, 14 at $1,500.....	21,000 00	
	Marine Engineers, 5 at $1,600.....	8,000 00	
	Stokers, 45 at $1,095.....	49,275 00	
	Foreman Ship Carpenter.....	1,408 50	
			2,842,203 50

Fire Alarm Telegraph.

758	Salaries and Wages—		
	Chief Inspector.....	$1,800 00	
	Inspectors of Fire Alarm Boxes, 2 at $1,200	2,400 00	
	Telegraph Operators, 6 at $1,500.....	9,000 00	
	Telegraph Operators, 9 at $1,200.....	10,800 00	
	Telephone Operators, 5 at $720.....	3,600 00	
	Salaries and Wages—		
	Batterymen, 3 at $1,200.....	3,600 00	
	Batterymen, 2 at $1,000.....	2,000 00	
	Batteryman	1,100 00	
	Batterymen's Assistants, 4 at $1,000.....	4,000 00	
	Foremen of Cable Splicers, 2 at $1,400..	2,800 00	
	Cable Splicers, 6 at $1,400.....	8,400 00	
	Foreman	1,277 50	
	Instrument Maker	1,200 00	
	Instrument Maker	1,000 00	
	Wiremen, 7 at $1,200.....	8,400 00	
	Foreman of Linemen.....	1,000 00	
	Linemen, 10 at $1,000.....	10,000 00	
	Painters, not to exceed $4 per day.....	2,432 00	
	Painter	1,095 50	
	Drivers, 2 at $1,000.....	2,000 00	
	Drivers, 3 at $912.....	2,736 00	
	Mason	939 00	
			81,580 00
759	General Supplies		20,000 00
760	Materials for Repairs and Replacements by Departmental Labor		51,000 00
761	Repairs and Replacements by Contract or Open Order..		40,000 00
762	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....		17,750 00
763	Purchase of Furniture and Fittings.....		9,000 00
764	Maintenance of Automobiles, including Equipment, Care and Storage		3,175 00
765	Purchase of Horses.....		25,920 00
766	Forage, Shoeing and Boarding Horses.....		101,000 00
767	Hired Teams, Horses and Carts.....		500 00
768	Fuel		81,000 00
769	Telephone Service		10,000 00
770	Contingencies.....		6,000 00
			3,418,128 50

ADMINISTRATION, BOROUGH OF THE BRONX.

Bureau of Chief of Department.

771	Salaries and Wages—		
	Deputy Chief	$4,200 00	
	Battalion Chiefs, 5 at $3,300.....	16,500 00	
	Medical Officer	3,300 00	
			$24,000 00

Engine and Hook and Ladder Companies.

772	Salaries and Wages—		
	Foremen, 34 at $2,160.....	$73,440 00	
	Assistant Foremen, 41 at $1,800.....	73,800 00	
	Engineers of Steamers, 48 at $1,600....	76,800 00	
	Firemen of all grades, including Mandatory Increases.....	522,500 00	
			746,540 00

Fire Alarm Telegraph.

773	Salaries and Wages—		
	Telegraph Operators, 3 at $1,500.....	$4,500 00	
	Telegraph Operators, 5 at $1,200.....	6,000 00	
	Batterymen, 3 at $1,000.....	3,000 00	
	Linemen, 2 at $1,000.....	2,000 00	
			15,500 00
774	General Supplies		4,500 00
775	Materials for Repairs and Replacements by Departmental Labor		20,000 00
776	Repairs and Replacements by Contract or Open Order..		11,655 00
777	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....		6,500 00
778	Purchase of Furniture and Fittings.....		2,900 00
779	Maintenance of Automobiles, including Equipment, Care and Storage		1,400 00
780	Purchase of Horses.....		5,184 00
781	Forage, Shoeing and Boarding Horses.....		27,000 00
782	Hired Teams, Horses and Carts.....		100 00
783	Fuel		14,680 00
784	Telephone Service		2,300 00
785	Contingencies.....		75 00
			882,334 00

ADMINISTRATION, BOROUGH OF RICHMOND.

Bureau of Chief of Department.

786	Salaries and Wages—		
	Deputy Chief	$4,200 00	
	Battalion Chiefs, 2 at $3,300.....	6,600 00	
	Medical Officer	3,300 00	
			$14,100 00

Engine and Hook and Ladder Companies.

787	Salaries and Wages—		
	Foremen, 15 at $2,160.....	$32,400 00	
	Assistant Foremen, 17 at $1,800.....	30,600 00	
	Engineers of Steamers, 18 at $1,600....	28,800 00	
	Firemen of all grades, including Mandatory Increases	187,300 00	
	Pilots, 3 at $1,500.....	4,500 00	
	Stokers, 5 at $1,095.....	5,475 00	
			289,075 00

Fire Alarm Telegraph.

788	Salaries and Wages—		
	Telegraph Operators, 2 at $1,500.....	$3,000 00	
	Telegraph Operators, 2 at $1,200.....	2,400 00	
	Wireman	1,200 00	
	Linemen, 3 at $1,000.....	3,000 00	
	Batterymen, 3 at $1,000.....	3,000 00	
			12,600 00

789	General Supplies	2,000 00	
790	Materials for Repairs and Replacements by Departmental Labor	9,500 00	
791	Repairs and Replacements by Contract or Open Order	8,000 00	
792	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	2,800 00	
793	Purchase of Furniture and Fittings	1,350 00	
794	Purchase of Automobiles	1,000 00	
795	Maintenance of Automobiles, including Equipment, Care and Storage	785 00	
796	Purchase of Horses	1,620 00	
797	Forage, Shoeing and Boarding Horses	9,500 00	
798	Hired Teams, Horses and Carts	100 00	
799	Fuel	7,750 00	
800	Telephone Service	1,550 00	
801	Contingencies	135 00	
802	Allowance to Volunteer Companies, Borough of Richmond (Section 722, Greater New York Charter).		
	Engine Companies.		
	Cromwell, Dongan Hills	$1,200 00	
	Great Kills No. 1, Great Kills	1,200 00	
	Huguenot No. 1, Huguenot	1,200 00	
	Citizens' No. 1, Pleasant Plains	1,200 00	
	Richmond No. 1, Richmond	1,200 00	
	Hook and Ladder Companies.		
	Oceanic No. 1, Linoleumville	1,000 00	
	Washington No. 1, Kreischerville	1,000 00	
	New Dorp No. 1, New Dorp	1,000 00	
	Amiticia No. 1, Pleasant Plains	1,000 00	
	Defender No. 7, Castleton Corners	1,000 00	
	Great Kills No. 1, Great Kills	1,000 00	
	Rossville No. 1, Rossville	1,000 00	
	Hose Company.		
	Cromwell Hose Company	800 00	
		13,800 00	
		375,665 00	

General Administration, Brooklyn and Queens.

Office of the Deputy Commissioner.

803	Salaries and Wages—		
	Deputy Commissioner	$5,000 00	
	Secretary to Deputy Commissioner	2,000 00	
	Clerk	2,400 00	
	Clerk	1,050 00	
	Clerk	900 00	
	Examiner of Accounts	2,000 00	
	Stenographer	1,500 00	
	Stenographer and Typewriter	900 00	
	Storekeeper	1,500 00	
	Inspector of Fuel	1,500 00	
	Automobile Engineman	1,200 00	
	Inspectors of Buildings, 2 at $1,800	3,600 00	
	Bookkeeper	1,500 00	
	Architectural Draftsmen, 2 at $1,500	3,000 00	
	Messenger	1,200 00	
	Laborers	3,728 50	
	Elevator Attendant	912 50	
	Cleaners, 2 at $912.50	1,825 00	
	Cleaners, 3 at $360	1,080 00	
		36,796 00	

Bureau of Combustibles.

804	Salaries and Wages—		
	Assistant Inspector of Combustibles	$2,500 00	
	Cashier	2,000 00	
	Oil Surveyors, 8 at $1,500	12,000 00	
	Clerk	1,200 00	
		17,700 00	

Bureau of Fire Marshal.

805	Salaries and Wages—		
	Fire Marshal	$3,000 00	
	Assistant Fire Marshal	2,000 00	
	Assistant Fire Marshals, 2 at $1,500	3,000 00	
	Inspector	2,000 00	
	Assistant Inspector	2,000 00	
	Clerk	1,200 00	
	Clerk	900 00	
	Stenographer	1,000 00	
		15,100 00	

Repair Shops.

806	Salaries and Wages—		
	Bookkeeper	$1,200 00	
	Sailmaker	1,100 00	
	Driver	912 00	
	Helpers, 2 at $900	1,800 00	
	Blacksmiths, not to exceed $4.50 per day	4,104 00	
	Wheelwrights, not to exceed $3.50 per day	2,128 00	
	Carpenters, not to exceed $5 per day	9,120 00	
	Machinists, not to exceed $4.50 per day	4,104 00	
	Plumbers, not to exceed $5 per day	3,040 00	
	Tinsmith, not to exceed $4.50 per day	1,368 00	
	Roofer, not to exceed $3.75 per day	1,140 00	
	Tinsmith and Roofer, $4 per day	1,216 00	
	Painters, not to exceed $4 per day	3,648 00	
	Wagon Painter, $4 per day	1,216 00	
	Bricklayer, not to exceed $5.60 per day	1,702 40	
	Salaries and Wages—		
	Harnessmaker, not to exceed $4 per day	1,216 00	
	Hose Repairer, $3.50 per day	1,064 00	
	Hose Repairer's Helper, $2.50 per day	760 00	
	Rubber Tire Repairer, $4 per day	1,216 00	
	Toolmen, $2.50 per day	4,105 00	
	Machinists' Helper, $2.25 per day	684 00	
	Blacksmiths' Helpers, not to exceed $3 per day	1,824 00	
	Steamfitter, not to exceed $5 per day	1,520 00	
	Letterer, $4 per day	1,216 00	
	Laborers	4,591 00	
		55,994 40	

Hospital and Training Stables.

807	Salaries and Wages—		
	Driver	$1,000 00	
	Stablemen, 7 at $912.50	6,387 50	
		7,387 50	

Fire Alarm Telegraph.

808	Salaries and Wages—		
	Telegraph Operator	$1,500 00	
	Telegraph Operator	1,200 00	
	Cable Splicers, 2 at $1,400	2,800 00	
	Inspector of Fire Alarm Boxes	1,200 00	
	Messenger	1,200 00	
	Linemen, 17 at $1,000	17,000 00	
	Batterymen, 2 at $1,100	2,200 00	
	Batterymen, 3 at $1,000	3,000 00	
	Batterymen, 5 at $912.50	4,562 50	
	Laborers, 2 at $1,095	2,190 00	
	Groundmen, 2 at $730	1,460 00	
		38,312 50	
		171,290 40	

Administration, Borough of Brooklyn.

Bureau of Chief of Department.

809	Salaries—		
	Deputy Chief	$5,000 00	
	Deputy Chiefs, 4 at $4,200	16,800 00	
	Battalion Chiefs, 20 at $3,300	66,000 00	
	Medical Officers, 3 at $3,300	9,900 00	
	Clerk	2,400 00	
	Stenographer and Typewriter	1,500 00	
	Stenographer and Typewriter	1,050 00	
	Chaplain	1,000 00	
		$103,650 00	

Engine and Hook and Ladder Companies.

810	Salaries and Wages—		
	Foremen, 85 at $2,160	$183,600 00	
	Assistant Foremen, 114 at $1,800	205,200 00	
	Engineers of Steamers, 148 at $1,600	236,800 00	
	Firemen of all grades, including Mandatory Increases	1,260,200 00	
	Marine Engineer	1,600 00	
	Pilots, 3 at $1,500	4,500 00	
	Stokers, 6 at $1,095	6,570 00	
		1,898,470 00	
811	General Supplies		13,584 00
812	Materials for Repairs and Replacements by Departmental Labor		26,635 00
813	Repairs and Replacements by Contract or Open Order		36,350 00
814	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		10,000 00
815	Purchase of Furniture and Fittings		7,500 00
816	Maintenance of Automobiles, including Equipment, Care and Storage		2,500 00
817	Purchase of Horses		18,000 00
818	Forage, Shoeing and Boarding Horses		89,000 00
819	Fuel		44,000 00
820	Telephone Service		8,200 00
821	Contingencies		1,750 00
822	Special Contract Obligations		7,900 00
			2,267,539 00

Administration, Borough of Queens.

Bureau of Chief of Department.

823	Salaries and Wages—		
	Deputy Chief	$4,200 00	
	Battalion Chiefs, 5 at $3,300	16,500 00	
	Medical Officers, 2 at $3,300	6,600 00	
	Chaplain	1,000 00	
		$28,300 00	

Engine and Hook and Ladder Companies.

824	Salaries and Wages—		
	Foremen, 32 at $2,160	$69,120 00	
	Assistant Foremen, 38 at $1,800	68,400 00	
	Engineers of Steamers, 36 at $1,600	57,600 00	
	Firemen of all grades, including Mandatory Increases	351,100 00	
		546,220 00	
825	General Supplies		4,500 00
826	Materials for Repairs and Replacements by Departmental Labor		7,500 00
827	Repairs and Replacements by Contract or Open Order		10,000 00
828	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		3,500 00
829	Purchase of Furniture and Fittings		3,600 00
830	Purchase of Horses		9,000 00
831	Forage, Shoeing and Boarding Horses		20,000 00

832	Fuel		8,500 00	
833	Telephone Service		2,000 00	
834	Contingencies		250 00	
				643,370 00

MAINTENANCE AND EXTENSION OF THE FIRE ALARM SYSTEM, INCLUDING APPARATUS FOR VOLUNTEER COMPANIES.

835	General Supplies	$250 00		
836	Materials for Repairs and Replacements by Departmental Labor	710 00		
837	Purchase of Horses	3,000 00		
838	Forage, Shoeing and Boarding Horses	10,000 00		
839	Hired Teams, Horses and Carts	900 00		
840	Fuel	440 00		
841	Contingencies	200 00		
			15,500 00	

842 MAINTENANCE OF VOLUNTEER SYSTEM (SECTION 722, GREATER NEW YORK CHARTER).

Newtown.

Metropolitan Engine Company No. 12	$1,200 00		
Gooderson Engine Company	1,200 00		
Maspeth Engine Company	1,200 00		
Leona Chemical Engine Company	1,200 00		
Wandowenock Fire Hook and Ladder Company (operates steam fire engine)	1,200 00		
Glendale Fire Hook and Ladder Company No. 9 (operates steam fire engine)	1,200 00		
Woodside Hook and Ladder Company	1,000 00		
Maspeth Hook and Ladder Company	1,000 00		
Fearless Hook and Ladder Company	1,000 00		
Ivanhoe Fire Hook and Ladder Company	1,000 00		
Elmhurst Fire Hook and Ladder Company	1,000 00		
Pioneer Fire Hook and Ladder Company	1,000 00		
Glendale Park Hook and Ladder Company No. 13	1,000 00		
		14,200 00	

Woodhaven.

Deraismes Engine Company No. 1	$1,200 00		
South Side Engine and Pump Company (operates hook and ladder)	1,000 00		
Americus Hook and Ladder Company	1,000 00		
Union Course Hook and Ladder Company	1,000 00		
Jones Hook and Ladder Company	1,000 00		
Woodhaven Hose Company	800 00		
Deraismes Hose Company	800 00		
Americus Hose Company	800 00		
Aqueduct Hose Company No. 4	800 00		
		8,400 00	

Bayside.

Bayside Fire Engine Company	$1,200 00		
Enterprise Hook and Ladder Company	1,000 00		
		2,200 00	

Hollis.

Hollis Hook and Ladder Company No. 1	$1,000 00		
Columbia Hose Company No. 1	800 00		
		1,800 00	

Springfield.

Springfield Chemical Engine Company No. 1	$1,200 00		
St. Albans Fire Hook and Ladder Company	1,000 00		
Springfield Hose Company No. 1	800 00		
		3,000 00	

Jamaica, South.

Point Pleasant Hook and Ladder Company		1,000 00	

Little Neck.

Active Hook and Ladder and Hose Company		1,000 00	

Douglaston.

Douglaston Hose Company		800 00	

Queens.

Queens Hook and Ladder Company No. 1	$1,000 00		
Queens Hose Company No. 2	800 00		
		1,800 00	

Rosedale.

Rosedale Chemical Fire Engine Company	$1,200 00		
Rosedale Fire Hook and Ladder Company	1,000 00		
		2,200 00	

Pleasant Point.

Pleasant Point Volunteer Pump and Hose Company		800 00	

Black Stump.

Black Stump Hook and Ladder and Bucket Company No. 1		1,000 00	

Whitestone.

Hook and Ladder Company No. 1	$1,000 00		
Engine and Hose Company No. 1	800 00		
Columbia Hose Company No. 1	800 00		
Indian Hose Company No. 2	800 00		
		3,400 00	
			57,100 00
			8,153,542 40

DEPARTMENT OF PARKS.

PARK BOARD, GENERAL ADMINISTRATION.

843	Salaries—			
	President		$5,000 00	
	Commissioners, 2 at $5,000 each		10,000 00	
	Secretary		4,800 00	
	Assistant Secretary		2,000 00	
	Landscape Architect		4,000 00	
	Topographical Draftsman		2,100 00	
				$27,900 00

MANHATTAN AND RICHMOND.

ADMINISTRATION.

Commissioner's Office.

844	Salaries and Wages—			
	Chief Bookkeeper	$2,800 00		
	Assistant Secretary	2,000 00		
	Meteorologist	2,500 00		
	Architect	2,500 00		
	Clerk	2,250 00		
	Purchasing Agent	2,000 00		
	Secretary to Commissioner	1,800 00		
	Clerk	1,800 00		
	Clerks, 2 at $1,500 each	3,000 00		
	Clerk	1,200 00		
	Clerk (Bookkeeper)	1,200 00		
	Meteorological Mechanic	1,500 00		
	Stenographer and Typewriter	1,200 00		
	Stenographers and Typewriters, 3 at $1,080 each	3,240 00		
	Clerk	900 00		
	Telephone Operator	750 00		
	Junior Clerk	600 00		
			$31,240 00	

Office of Superintendent of Parks.

845	Salaries and Wages—			
	Superintendent	$3,000 00		
	Assistant Superintendents of Parks, 2 at $2,500	5,000 00		
	Clerk	1,800 00		
	Stenographer and Typewriter	900 00		
	Clerks, 2 at $900	1,800 00		
			12,500 00	

Engineer's Office.

846	Salaries and Wages—			
	Chief Engineer	$4,000 00		
	Principal Assistant	2,500 00		
	Stenographer and Typewriter	1,080 00		
	Services of Engineering Force temporarily employed on Maintenance Work	6,500 00		
			14,080 00	

Office of Superintendent of Supplies and Repairs.

847	Salaries and Wages—			
	Superintendent	$3,000 00		
	Clerk (Bookkeeper)	1,200 00		
	Storekeeper	1,200 00		
	Clerks, 2 at $900	1,800 00		
			7,200 00	
848	General Supplies		1,200 00	
849	Contingencies		1,000 00	
850	Telephone Service		2,000 00	
				$69,220 00

General Maintenance.

851	Salaries and Wages, Mechanical Force—			
	Foreman Carpenter, at $150 monthly	$1,800 00		
	Foreman Painter, at $150 monthly	1,800 00		
	Foreman of Mechanics, at $150 monthly	1,800 00		
	Foreman Mason, at $150 monthly	1,800 00		
	Steam Engineers, not to exceed $4.50 per day	4,549 50		
	Steamfitter, not to exceed $5 per day	1,255 50		
	Pipefitter, not to exceed $5 per day	1,255 50		
	Machinist, not to exceed $4.50 per day	1,372 50		
	Housesmiths, not to exceed $4.80 per day	3,348 00		
	Blacksmiths, not to exceed $4.50 per day	3,660 00		
	Blacksmiths' Helpers, not to exceed $3.50 per day	5,490 00		
	Machinists' Helpers, not to exceed $2.50 per day	1,525 00		
	Rigger, not to exceed $3.50 per day	1,067 50		
	Carpenters, not to exceed $5 per day	30,690 00		
	Wheelwrights, not to exceed $3.50 per day	3,202 50		

Salaries and Wages, Mechanical Force—

Plumbers, not to exceed $5 per day	5,800 75	
Tinsmiths, not to exceed $4.50 per day	2,511 00	
Plumber's Helper, not to exceed $3.25 per day	906 75	
Plumbers' Apprentices, not to exceed $2.75 per day	1,534 50	
Bricklayers, not to exceed $5.60 per day	1,562 40	
Masons, not to exceed $5 per day	5,356 80	
Paver, not to exceed $5 per day	1,255 50	
Harnessmakers, not to exceed $4 per day	2,440 00	
Stokers, not to exceed $3 per day	6,570 00	
Painters, not to exceed $4 per day	17,856 00	
Painters (Decorators), not to exceed $4.50 per day	5,022 00	
Grainer (Painter), not to exceed $4 per day	1,116 00	
Electrician, not to exceed $4.50 per day	1,225 00	
		117,772 70

Maintenance, Parks and Boulevards.

852 Salaries and Wages—

General Foremen, 2 at $1,800.	$3,600 00	
General Foreman of Stables, at $150 monthly	1,800 00	
Foreman Gardener, at $150 monthly	1,800 00	
Foreman, at $125 monthly	1,500 00	
Foremen, 28 at $100 monthly.	33,600 00	
Arboriculturist, at $125 monthly	1,500 00	
Arboriculturist, at $100 monthly	1,200 00	
Gardeners, 8 at $100 monthly	9,600 00	
Gardeners, 50 at $75 monthly.	45,000 00	
Drivers	9,600 00	
Attendant, at $85 monthly	1,020 00	
Entomologist, at $150 monthly	1,800 00	
Laborers	248,291 25	
Drivers	19,291 25	
Drivers	25,925 00	
Stablemen	12,866 25	
Pruners and Climbers	22,875 00	
Laborer	1,200 00	
Laborer	840 00	
	443,308 75	
853 Hired Teams, Horses and Carts	15,000 00	
854 General Supplies	28,000 00	
855 Forage, Shoeing and Boarding Horses	30,500 00	
856 Material for Repairs and Replacements by Departmental Labor	75,000 00	
857 Repairs and Replacements by Contract or Open Order	52,800 00	
858 Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	13,750 00	
859 Purchase of Furniture and Fittings	750 00	
860 Purchase of Horses	5,000 00	
861 Fuel	17,500 00	
862 Contingencies	5,250 00	
		686,858 75

MAINTENANCE—PLAYGROUNDS, BATH HOUSES AND COMFORT STATIONS.

Playgrounds.

863 Salaries and Wages—

Gymnasium Attendants	$8,100 00	
Playground Attendants	10,560 00	
Laborers	6,402 50	
Driver	762 50	
		$25,825 00

Bath Houses and Comfort Stations.

864 Salaries and Wages—

Foreman	$1,200 00	
Cottage Attendants	35,400 00	
Bath Attendants	6,990 00	
Laborers	26,920 00	
	70,510 00	
		96,335 00

Maintenance of Trees in City Streets.

865 Salaries and Wages—

Arboriculturists, 2 at $100 monthly	$2,400 00	
Climbers and Pruners	19,062 50	
Laborers	1,275 00	
Driver	762 50	
Foreman, at $100 monthly (6 months)	600 00	
Gardener, at $75 monthly	900 00	
		$25,000 00

Maintenance of Zoological Department.

866 Salaries and Wages—

Director of Menagerie, at $250 monthly.	$3,000 00	
Keeper of Menagerie, at $100 monthly	1,200 00	
Keepers of Menagerie, 3 at $85 monthly	3,060 00	
Keepers of Menagerie, 8 at $75 monthly	7,200 00	
Driver	912 50	
		15,372 50
867 Music	$30,000 00	
868 Care of Grant's Tomb	7,000 00	
		37,000 00

Maintenance of Aquarium.

869 Salaries and Wages	$30,572 66	
870 Telephone Service	175 00	
871 General Supplies	5,877 26	
872 Material for Repairs and Replacements by Departmental Labor	600 00	
873 Repairs and Replacements by Contract or Open Order	1,402 00	
874 Hired Teams, Horses and Carts	350 00	
875 Fuel and Light	5,000 00	
876 Contingencies	648 08	
877 Special Contract Obligations	1,375 00	
		46,000 00

Maintenance of Metropolitan Museum of Art.

878 Salaries and Wages	$161,097 75	
879 Telephone Service	600 00	
880 General Supplies	7,456 80	
881 Materials for Repairs and Replacements by Departmental Labor	6,685 45	
882 Purchase of Furniture and Fittings	1,850 00	
883 Fuel	10,400 00	
884 Contingencies	11,910 00	
		200,000 00

Maintenance of American Museum of Natural History.

885 Salaries and Wages	$160,000 00	
886 Telephone Service	780 00	
887 General Supplies	9,419 00	
888 Material for Repairs and Replacements by Departmental Labor	3,500 00	
889 Repairs and Replacements by Contract or Open Order	500 00	
890 Maintenance of Automobiles, including Equipment, Care and Storage	450 00	
891 Purchase of Furniture and Fittings	1,150 00	
892 Fuel	8,500 00	
893 Contingencies	1,458 00	
		185,757 00

Maintenance of Children's School Farm (De Witt Clinton Park.)

894 Salaries and Wages	$4,800 00	
895 Implements and Supplies	200 00	
		5,000 00

Maintenance of Jumel Mansion.

896 Salaries and Wages	$3,750 00	
897 General Supplies	50 00	
898 Material for Repairs and Replacements by Departmental Labor	250 00	
899 Repairs and Replacements by Contract or Open Order	250 00	
900 Purchase of Furniture and Fittings	800 00	
901 Fuel	300 00	
902 Contingencies	250 00	
	5,650 00	
		$1,517,865 95

THE BRONX.

Administration.

Commissioner's Office—

903 Salaries and Wages:		
Private Secretary	$2,400 00	
Chief Clerk	2,400 00	
Bookkeeper	2,100 00	
Clerks, 3 at $1,200 each	3,600 00	
Automobile Engineman	1,200 00	
Stenographers and Typewriters, 2 at $1,050 each	2,100 00	
Telephone Operator	600 00	
		$14,400 00

Superintendent's Office—

904 Salaries and Wages:		
Superintendent	$3,000 00	
Assistant Superintendents, 2 at $1,500 each	3,000 00	
General Foremen, 4 at $1,500 each	6,000 00	
Clerk	900 00	
		12,900 00

Engineer's Office—

905 Salaries and Wages:		
Chief Engineer	$4,000 00	
Assistant Engineers, 2 at $2,100	4,200 00	
Horticultural Draftsman	1,950 00	
Stenographer and Typewriter	1,050 00	
Clerk	1,200 00	
		12,400 00

906	General Supplies	365 00	
907	Contingencies	1,000 00	
908	Telephone Service	750 00	
			$41,815 00

GENERAL MAINTENANCE OF MECHANICAL FORCE.

909	Salaries and Wages—		
	Foreman Carpenters, not to exceed $5.50 per day	$3,080 00	
	Carpenters, not to exceed $5 per day	8,620 00	
	Foreman Plumber, not to exceed $5.50 per day	1,400 00	
	Plumbers, not to exceed $5 per day	2,650 00	
	Bricklayers, not to exceed $5.60 per day	1,344 00	
	Foreman Painter, not to exceed $4.50 per day	1,260 00	
	Painters, not to exceed $4 per day	6,305 00	
	Varnisher, not to exceed $4 per day	1,120 00	
	Grainer, not to exceed $4 per day	1,260 00	
	Sign Painter, not to exceed $4.50 per day	1,260 00	
	Wheelwright, not to exceed $3.50 per day	1,120 00	
	Blacksmith, not to exceed $4.50 per day	1,120 00	
	Harnessmaker, not to exceed $4 per day	1,120 00	
	Tinsmith, not to exceed $4.50 per day	1,260 00	
	Pipe Fitter, not to exceed $5 per day	945 00	
	Blacksmiths' Helpers, not to exceed $3 per day	2,520 00	
	Stokers, not to exceed $3 per day	4,200 00	
	Saw Filers	1,820 00	
	Steam Engineers, not to exceed $4.50 per day	6,300 00	
	Auto Lawn Mower Enginemen	2,940 00	
	Foreman of Repairs	980 00	
	Foreman Wheelwright	1,260 00	
	Blasters	2,240 00	
	Pavers, not to exceed $5 per day	3,750 00	
	Rammers, not to exceed $4 per day	3,000 00	
			62,874 00

Maintenance of Parks and Boulevards.

910	Salaries and Wages—		
	Foremen, 15 at $1,200 each	$18,000 00	
	Helper	1,200 00	
	Arboriculturist	900 00	
	Janitress	600 00	
	Cottage Attendant	720 00	
	Cleaners	3,600 00	
	Assistant Foremen	10,500 00	
	Gardeners, at $75 monthly	18,172 50	
	Hostlers	6,018 00	
	Drivers	10,038 00	
	Stablemen	3,285 00	
	Laborers	144,087 50	
	Laborer Rockmen	1,540 00	
	Climber and Pruner	700 00	
			$219,361 00
911	Hired Teams, Horses and Carts	36,414 50	
912	General Supplies	2,500 00	
913	Forage, Shoeing and Boarding Horses	3,332 00	
914	Material for Repairs and Replacements by Departmental Labor	26,200 00	
915	Repairs and Replacements by Contract or Open Order	2,500 00	
916	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	8,468 00	
917	Fuel	3,500 00	
918	Maintenance of Automobiles, including Equipment, Care and Storage	500 00	
919	Purchase of Horses	1,000 00	
			303,775 50

Maintenance of Trees in City Streets.

920	Salaries and Wages—		
	Arboriculturist	$1,500 00	
	Foreman	1,200 00	
	Climbers and Pruners	10,500 00	
	Laborers	3,361 50	
			16,561 50
921	Music		12,000 00

Maintenance of New York Botanical Garden.

922	Salaries and Wages	$64,860 00	
923	General Supplies	2,000 00	
924	Materials for Repairs and Replacements by Departmental Labor	1,000 00	
925	Repairs and Replacements by Contract or Open Order	500 00	
926	Fuel	12,000 00	
927	Contingencies	495 00	
928	Telephone Service	100 00	
929	Forage, Shoeing and Boarding Horses	1,114 64	
930	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	925 00	
			82,994 64

Maintenance of New York Zoological Garden.

931	Salaries and Wages	$111,000 00	
932	General Supplies	40,400 00	
933	Material for Repairs and Replacements by Departmental Labor	5,800 00	
934	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	420 00	
935	Fuel	8,000 00	
936	Contingencies	1,242 00	
937	Telephone Service	770 00	
			167,632 00
			687,652 64

BROOKLYN AND QUEENS.

Administration.

938	Commissioner's Office, Salaries and Wages—		
	Secretary to Commissioner	$2,500 00	
	Stenographer	1,650 00	
	Stenographer to Commissioner	1,050 00	
	Telephone Operator	900 00	
	Chief Clerk	2,000 00	
	Assistant Paymaster	1,650 00	
	Bookkeeper	1,650 00	
	Clerk	1,200 00	
	Clerks, 2 at $900	1,800 00	
	Clerk	300 00	
			$14,700 00
939	Superintendent's Office, Salaries and Wages—		
	Superintendent	$4,000 00	
	Arboriculturists, 3 at $1,500	4,500 00	
	Master Machinist	2,000 00	
	General Foreman	1,800 00	
	Clerk	900 00	
			13,200 00
940	Engineer's Office, Salaries and Wages—		
	Chief Engineer	$4,000 00	
	Assistant Engineer	3,500 00	
	Leveler	1,500 00	
	Clerk	1,200 00	
			10,200 00
941	Office of the Superintendent of Supplies and Repairs, Salaries and Wages—		
	Superintendent	$1,950 00	
	Property Clerk	2,100 00	
			4,050 00
942	General Supplies		500 00
943	Contingencies		1,000 00
944	Telephone Service		1,500 00
			$45,150 00

General Maintenance, Mechanical Force.

945	Salaries and Wages—		
	Foreman of Mechanics	$3,650 00	
	Bricklayers, not to exceed $5.60 per day	6,720 00	
	Stonemasons, not to exceed $4.50 per day	4,066 93	
	Masons, not to exceed $5 per day	3,000 00	
	Carpenters, not to exceed $5 per day	18,000 00	
	Plumbers, not to exceed $5 per day	7,642 50	
	Tinsmith and Roofer, not to exceed $4.50 per day	1,350 00	
	Wheelwrights, not to exceed $3.50 per day	2,100 00	
	Painters, not to exceed $4 per day	12,000 00	
	Letterers, not to exceed $4 per day	2,456 00	
	Horseshoer, not to exceed $4 per day	1,274 00	
	Harnessmaker, not to exceed $4 per day	1,200 00	
	Blacksmiths, not to exceed $4.50 per day	3,316 00	
	Blacksmiths' Helpers, not to exceed $3.50 per day	2,304 00	
	Machinists' Helpers	1,050 00	
	Fireman and Stokers, not to exceed $3 per day	3,285 00	
	Mechanical Engineer, not to exceed $4.50 per day	1,642 50	
	Stationary Engineers, not to exceed $4.50 per day	3,285 00	
	Engineers of Steam Rollers and Grass Cutters and Automobiles, not to exceed $4.50 per day	13,650 00	
	Rigger, not to exceed $3 per day	900 00	
	Elevatorman	1,095 00	
			93,986 93

Maintenance, Parks and Boulevards.

946	Salaries and Wages—		
	Foreman of Greenhouses	$1,825 00	
	Foremen of Laborers	39,237 50	
	Foreman of Hostlers	1,460 00	
	Special Laborer	1,095 00	
	Toolmen	4,590 00	
	Laborers	284,016 25	
	Gardeners	51,928 75	
	Pruners and Climbers	19,500 00	
	Hostlers	4,380 00	
	Drivers	15,462 50	
	Attendants (Female)	25,185 00	
	Cottage Attendants	1,460 00	
	Gymnasium Attendants (Male)	6,387 50	
	Gymnasium Attendants (Female)	5,475 00	
	Janitor	1,095 00	
			$463,097 50

947	Hired Teams and Carts, Road Machines..	117,690 00	
948	General Supplies	51,200 00	
949	Materials for Repairs and Replacements by Departmental Labor	91,400 00	
950	Repairs and Replacements by Contract or Open Order	50,000 00	
951	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....	14,500 00	
952	Fuel	14,190 75	
953	Contingencies.....	5,000 00	
954	Maintenance of Automobiles, including Equipment, Care and Storage.....	1,000 00	
955	Purchase of Furniture and Fittings.....	2,000 00	
956	Purchase of Horses.....	2,000 00	
957	Forage, Shoeing and Boarding Horses....	8,453 50	
			820,531 75

Maintenance of Trees in City Streets.

958	Salaries and Wages—		
	Foremen	$3,285 00	
	Pruners and Climbers.....	50,000 00	
			53,285 00

Maintenance of Zoological Department.

959	Salaries and Wages—		
	Keepers of Menagerie.....	$3,285 00	
	Laborers	6,752 50	
			10,037 50
960	Music.....		16,500 00

MAINTENANCE OF INSTITUTIONS.

Museum of Arts and Sciences (Including Taxidermical Laboratory).

961	Salaries and Wages.....	$68,410 00	
962	General Supplies	3,600 00	
963	Materials for Repairs and Replacements by Departmental Labor	3,000 00	
964	Repairs and Replacements by Contract or Open Order	3,000 00	
965	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....	300 00	
966	Fuel	6,500 00	
967	Contingencies	5,350 00	
968	Telephone Service.....	200 00	
969	Purchase of Furniture and Fittings.....	3,000 00	
970	Special Contract Obligations.....	400 00	
			93,760 00

Children's Museum.

971	Salaries and Wages.....	$9,550 00	
972	General Supplies.....	700 00	
973	Repairs and Replacements by Contract or Open Order.....	300 00	
974	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage.....	150 00	
975	Fuel	325 00	
976	Contingencies	550 00	
977	Telephone Service.....	70 00	
978	Purchase of Furniture and Fittings.....	200 00	
979	Special Contract Obligations.....	300 00	
			12,145 00
			1,145,396 18
			3,350,914 77

DEPARTMENT OF EDUCATION.

SPECIAL SCHOOL FUND.

GENERAL ADMINISTRATION.

Salaries and Wages.

980	Office of the Secretary—		
	Secretary	$5,500 00	
	Assistant Secretary.....	3,500 00	
	Chief Clerk.....	3,000 00	
	Clerk	2,250 00	
	Clerks, 5 at $1,950.....	9,750 00	
	Clerk	1,500 00	
	Clerk	1,200 00	
	Clerks, 2 at $1,050.....	2,100 00	
	Clerk	750 00	
	Clerk	600 00	
	Clerks, 2 at $420.....	840 00	
	Stenographer and Typewriter.	2,500 00	
	Stenographers and Typewriters, 2 at $1,500.....	3,000 00	
	Stenographer and Typewriter.	1,350 00	
	Typewriting Copyist.....	1,050 00	
	Typewriting Copyist.....	900 00	
	Telephone Switchboard Operator	900 00	
	Telephone Switchboard Operator	750 00	
	Telephone Switchboard Operator	600 00	
	Librarian	1,050 00	
	Messenger	1,200 00	
			44,290 00
981	Office of the Auditor—		
	Auditor	$5,500 00	
	Clerk	3,000 00	
	Clerk	2,100 00	
	Clerk	1,800 00	
	Office of the Auditor—		
	Clerk	1,500 00	
	Bookkeeper	1,950 00	
	Examiners of Claims, 8 at $1,500	12,000 00	
	Examiner of Claims.....	1,200 00	
	Clerks, 3 at $1,350.....	4,050 00	
	Clerks, 5 at $1,200.....	6,000 00	
	Clerk	1,050 00	
	Clerks, 4 at $900.....	3,600 00	
	Clerk	660 00	
	Clerks, 2 at $600.....	1,200 00	
	Clerk	540 00	
	Clerks, 4 at $400.....	1,600 00	
	Clerks, 8 at $300.....	2,400 00	
	Clerk (Cataloguer).....	600 00	
	Stenographer and Typewriter.	1,350 00	
	Typewriter Accountants, 3 at $900	2,700 00	
	Bookkeepers or Examiners, 4 at $900.....	3,600 00	
		58,400 00	
			$102,690 00

ADMINISTRATION.

Salaries and Wages.

982	Office of the City Superintendent of Schools—		
	Head Clerk.....	$4,000 00	
	Statistician	1,950 00	
	Clerk, with knowledge of Statistics	1,200 00	
	Clerk	3,500 00	
	Clerk	2,500 00	
	Clerks, 3 at $1,650.....	4,950 00	
	Clerks, 3 at $1,500.....	4,500 00	
	Clerks, 4 at $1,350.....	5,400 00	
	Clerks, 6 at $1,200.....	7,200 00	
	Clerks, 6 at $1,050.....	6,300 00	
	Clerks, 4 at $900.....	3,600 00	
	Clerk	750 00	
	Clerk	480 00	
	Clerks, 3 at $300.....	900 00	
	Stenographer and Typewriter.	1,650 00	
	Stenographers and Typewriters, 6 at $1,500.....	9,000 00	
	Stenographers and Typewriters, 3 at $1,350.....	4,050 00	
	Stenographers and Typewriters, 7 at $1,200.....	8,400 00	
	Stenographer and Typewriter.	1,050 00	
	Stenographer and Typewriter.	750 00	
	Stenographer and Typewriter.	600 00	
	Typewriting Copyist.....	1,350 00	
	Typewriting Copyist.....	1,050 00	
	Typewriting Copyist.....	900 00	
	Typewriting Copyist.....	750 00	
	Typewriting Copyist.....	600 00	
			77,380 00
983	Offices of District Superintendents—		
	Clerks, 7 at $900.....	$6,300 00	
	Clerk	600 00	
	Typewriting Copyists, 4 at $900	3,600 00	
	Stenographers and Typewriters, 3 at $750.....	2,250 00	
	Stenographers and Typewriters, 8 at $600.....	4,800 00	
	Stenographer and Typewriter.	900 00	
			18,450 00
984	Office of the Superintendent of School Supplies—		
	Superintendent	$7,500 00	
	Deputy Superintendent.....	3,600 00	
	Deputy Superintendent.....	1,950 00	
	Bookkeeper	1,800 00	
	Supply Clerk.....	1,650 00	
	Supply Clerk.....	900 00	
	Clerk	2,500 00	
	Clerk	2,000 00	
	Clerk	1,950 00	
	Clerk	1,800 00	
	Clerks, 2 at $1,500.....	3,000 00	
	Clerks, 2 at $1,350.....	2,700 00	
	Clerks, 5 at $1,200.....	6,000 00	
	Clerks, 2 at $1,150.....	2,300 00	
	Clerks, 7 at $1,050.....	7,350 00	
	Clerks, 5 at $900.....	4,500 00	
	Clerks, 2 at $750.....	1,500 00	
	Clerks, 2 at $540.....	1,080 00	
	Clerks, 10 at $420.....	4,200 00	
	Clerks, 14 at $300.....	4,200 00	
	Stenographer and Typewriter.	1,650 00	
	Stenographer and Typewriter.	1,500 00	
	Stenographers and Typewriters, 3 at $1,050.....	3,150 00	
	Stenographer and Typewriter.	900 00	
	Stenographer and Typewriter.	750 00	
	Stenographer and Typewriter.	600 00	
	Fuel Inspector.....	2,000 00	

	Office of the Superintendent of School Supplies—		
	Fuel Inspector	1,650 00	
	Fuel Inspectors, 3 at $1,500	4,500 00	
	Fuel Inspectors, 3 at $1,350	4,050 00	
	Fuel Inspector	1,300 00	
	Automobile Truck Engineman and Mechanic	1,500 00	
	Automobile Truck Driver	900 00	
	Fuel Inspectors, 4 at $1,150	4,600 00	
	Toolmen, 2 at $1,050	2,100 00	
	Laborer	1,050 00	
	Laborers, 7 at $900	6,300 00	
	Laborer	750 00	
	Orderly	1,500 00	
	Orderly	1,050 00	
	Cleaners, 9 at $900	8,100 00	
	Cleaners, 8 at $750	6,000 00	
	Cleaners, 12 at $600	7,200 00	
	Seamstress	900 00	
	Gymnasium Attendant	1,500 00	
	Typewriting Copyist	1,050 00	
			129,030 00
985	Office of the Superintendent of School Buildings—		
	Superintendent	$10,000 00	
	Deputy Superintendents, 3 at $4,500	13,500 00	
	Deputy Superintendent	3,500 00	
	Deputy Superintendent	3,000 00	
	Deputy Superintendent	2,550 00	
	Assistant to Superintendent	2,550 00	
	Sanitary Inspector	3,250 00	
	Chief Clerk	3,500 00	
	Accountant	2,400 00	
	Clerk	1,800 00	
	Clerk	1,200 00	
	Clerks, 2 at $1,050	2,100 00	
	Clerk	750 00	
	Clerk	540 00	
	Clerks, 2 at $480	960 00	
	Stenographer	1,650 00	
	Stenographer and Typewriter	1,500 00	
	Stenographers and Typewriters, 6 at $1,350	8,100 00	
	Stenographer and Typewriter	900 00	
	Stenographer and Typewriter	600 00	
	Typewriter	1,350 00	
	Typewriting Copyist	750 00	
	Typewriting Copyists, 3 at $600	1,800 00	
	Telephone Switchboard Operator	600 00	
	Cleaner	900 00	
	Clerk	420 00	
	Stenographer and Typewriter	750 00	
	Clerk	300 00	
			71,220 00
986	Office of the Supervisor of Janitors—		
	Supervisor of Janitors	$3,000 00	
	Emergency Janitor-Engineers, 3 at $2,500	7,500 00	
	Clerk	1,050 00	
	Clerk	900 00	
			12,450 00
987	Office of the Supervisor of Lectures—		
	Clerk	$1,950 00	
	Clerk	1,050 00	
	Clerk	750 00	
	Clerk	300 00	
	Stenographer and Typewriter	1,200 00	
	Stenographer and Typewriter	1,050 00	
	Stenographer and Typewriter	900 00	
	Librarian	900 00	
			8,100 00
			316,630 00

MAINTENANCE.

Salaries and Wages.

988	Bureau of Buildings, Division of Repairs—		
	Inspector of Mason's Material	$2,860 00	
	Cleaner	1,000 00	
	Clerk	950 00	
	Inspectors of Masonry	9,415 28	
	General Inspector	2,347 50	
	Electrical Inspectors	8,529 28	
	General Inspector of Repairs	2,347 50	
	Inspectors of Repairs	20,019 50	
	Inspectors of Carpentry	4,516 00	
	Heating and Ventilating Inspectors	20,370 50	
	Inspectors of Light and Ventilation	1,565 00	
	Sanitary Inspectors	16,632 67	
	Inspectors of Masonry and Carpentry	19,871 50	
	Architectural Draftsmen	18,545 87	
	Assistant Architectural Draftsman	1,434 58	
	Bureau of Buildings, Division of Repairs—		
	Assistant Architectural Draftsman	895 47	
	Junior Assistant Architectural Draftsman	817 09	
	Mechanical Draftsmen	3,434 17	
	Foremen Carpenters	1,825 83	
	Plumbers, not to exceed $5 a day	3,443 00	
	Electricians, not to exceed $4.50 a day	2,825 17	
	Machinists' Helpers	1,408 50	
	Batterymen	1,408 50	
	Linemen, Electricians, not to exceed $4.50 a day	1,408 50	
	Thermostat Repairers	4,564 58	
	Steamfitters, not to exceed $5 a day	3,130 00	
	Roofers, not to exceed $3.75 a day	1,408 50	
	Drivers	939 00	
	Batterymen	1,287 00	
	Wiremen, not to exceed $4.50 a day	7,959 50	
	Steamfitters' Helpers	1,878 00	
	Tinners, not to exceed $4.50 a day	1,408 50	
	Gasfitters, not to exceed $5 a day	1,565 00	
	Pipefitters' Helpers	939 00	
	Painters, not to exceed $4 a day	2,191 00	
	Carpenters, not to exceed $5 a day	5,634 00	
	Plumbers' Apprentices	626 00	
	Electrician, not to exceed $4.50 a day	1,252 00	
	Furniture Inspectors	3,756 00	
	Draftsmen's Helpers	1,372 92	
	Upholsterers, not to exceed $4 a day	1,095 50	
	Carpenters, not to exceed $5 a day	1,408 50	
			190,286 41
989	Manhattan Truant School—		
	Matron	$1,500 00	
	Seamstress	480 00	
	Cook	420 00	
	Caretaker	720 00	
	Cleaner	720 00	
	Cleaner	600 00	
	Hospital Helper	300 00	
	Physician	500 00	
			5,240 00
990	Brooklyn Truant School—		
	Caretaker	$720 00	
	Caretakers, 2 at $600	1,200 00	
	Caretakers, 2 at $300	600 00	
	Laborer	730 00	
	Seamstress	720 00	
	Cleaners, 2 at $300	600 00	
	Gardener	1,200 00	
	Laundress	420 00	
	Laundresses, 2 at $300	600 00	
	Cook	360 00	
	Assistant Cook	300 00	
	Waitress	300 00	
	Physician	600 00	
			8,350 00
991	New York Parental School—		
	Gardener-Drivers, 3 at $600	$1,800 00	
	Gardener-Driver	750 00	
	Caretakers, 5 at $720	3,600 00	
	Caretaker	600 00	
	Caretakers, $9 at $420	3,780 00	
	Caretaker	480 00	
	Laundress	300 00	
	Laundryman	600 00	
	Gardener	1,200 00	
	Physician	400 00	
	Cooks, 2 at $600	1,200 00	
	Waitress	300 00	
			15,010 00
992	Nautical School—		
	Superintendent	$2,750 00	
	Executive Officer	2,400 00	
	Senior Instructor	2,000 00	
	Junior Instructor	1,400 00	
	Surgeon and Instructor	1,900 00	
	Chief Engineer and Instructor	2,200 00	
	Boatswain	1,200 00	
	Steward	900 00	
	Master-at-Arms	600 00	
	Ship's Cook	600 00	
	Carpenter	540 00	
	Sailmaker	540 00	
	Firemen	2,160 00	
	Chief Quartermaster	540 00	
	Quartermasters, 2 at $480	960 00	

	Nautical School—		
	Cabin Steward	540 00	
	Cabin Boy	360 00	
	Ward-room Steward	540 00	
	Ward-room Boys, 2 at $360	720 00	
	Seamen, 7 at $360	2,520 00	
	Electrician, First Class	600 00	
	Electrician, Second Class	480 00	
	Machinists	1,800 00	
	Boilermaker	780 00	
	Yeoman	600 00	
	Coal Heavers	720 00	
	Water Tenders	1,800 00	
	Captain of the Hold	420 00	
			32,570 00
993	Evening Lecture Centres—		
	Local Superintendents, at $3 per night	$20,000 00	
	Operators, at $3 per night	12,000 00	
			32,000 00

General Supplies.

994	Borough of Manhattan	$415,000 00	
995	Borough of The Bronx	87,000 00	
996	Borough of Brooklyn	373,000 00	
997	Borough of Queens	75,000 00	
998	Borough of Richmond	23,000 00	
999	Board of Education	74,310 00	
1000	Truant Schools	40,000 00	
1001	Nautical School	27,199 00	
1002	School Libraries and Libraries and Apparatus, Regents' Schools	38,706 00	
1003	Evening Lectures	28,700 00	
			1,181,915 00

REPAIRS AND REPLACEMENTS BY CONTRACT OR OPEN ORDER.

General Repairs.

1004	Borough of Manhattan	$416,036 44	
1005	Borough of The Bronx	92,416 73	
1006	Borough of Brooklyn	346,753 33	
1007	Borough of Queens	122,586 47	
1008	Borough of Richmond	37,249 45	
1009	School Ship "Newport"	3,000 00	
1010	Evening Lecture Centres	3,000 00	
			1,021,042 42

Furniture and Repairs of.

1011	Borough of Manhattan	$103,056 00	
1012	Borough of The Bronx	40,697 00	
1013	Borough of Brooklyn	51,850 00	
1014	Borough of Queens	13,098 43	
1015	Borough of Richmond	2,224 27	
			210,925 70

Pianos and Repairs of.

1016	Borough of Manhattan	$1,500 00	
1017	Borough of The Bronx	600 00	
1018	Borough of Brooklyn	1,500 00	
1019	Borough of Queens	800 00	
1020	Borough of Richmond	500 00	
			4,900 00

Fire Alarms.

1021	Borough of Manhattan	$2,000 00	
1022	Borough of The Bronx	500 00	
1023	Borough of Brooklyn	1,800 00	
1024	Borough of Queens	655 00	
1025	Borough of Richmond	400 00	
			5,355 00

Electrical Installation and Repairs.

1026	Borough of Manhattan	$54,200 00	
1027	Borough of The Bronx	4,000 00	
1028	Borough of Brooklyn	40,000 00	
1029	Borough of Queens	2,000 00	
1030	Borough of Richmond	2,000 00	
			102,200 00

Equipment of Science Rooms, Gymnasiums, Kitchens, Kindergartens and Workshops.

1031	Borough of Manhattan	$12,780 00	
1032	Borough of The Bronx	4,070 00	
1033	Borough of Brooklyn	47,130 00	
1034	Borough of Queens	3,310 00	
1035	Borough of Richmond	1,800 00	
			69,090 00

Equipment of Vocational School for Girls.

1036	Borough of Manhattan		10,000 00

Fitting Up Class Rooms for Tubercular Pupils.

1037	Board of Education		6,500 00

APPARATUS—MACHINERY, VEHICLES, HARNESS, ETC., INCLUDING CARE AND STORAGE.

1038	Care of Horses, Board of Education	$4,231 00	
1039	Care of Horses, Truant Schools	2,250 00	
1040	Wireless Telegraph Set, Schoolship "Newport"	1,600 00	
			8,081 00

FUEL.

1041	Borough of Manhattan	$197,314 25	
1042	Borough of The Bronx	48,650 75	
1043	Borough of Brooklyn	194,825 00	
1044	Borough of Queens	65,091 10	
1045	Borough of Richmond	20,999 00	
1046	Schoolship "Newport"	4,500 00	
			531,380 10
1047	Hired Teams, Horses and Carts		27,000 00
1048	Telephone Service		10,793 00

CONTINGENCIES.

1049	Board of Education	$26,666 00	
1050	Truant Schools	2,756 00	
1051	Evening Lecture Courses	3,000 00	
1052	Music for Evening Roof Playgrounds	9,504 00	
1053	Nautical School	500 00	
			42,426 00

SPECIAL CONTRACT OBLIGATIONS.

1054	Compensation of Janitors		1,393,141 41

Transportation of Pupils.

1055	Borough of Manhattan	$7,063 80	
1056	Borough of The Bronx	16,226 92	
1057	Borough of Brooklyn	2,784 50	
1058	Borough of Queens	46,301 02	
1059	Borough of Richmond	9,016 75	
			81,392 99
1060	Heat for the Hall of the Board of Education		2,599 00
1061	Illustration of Lectures, Rental of Halls, etc., Evening Lecture Courses		20,000 00
1062	Maintenance of Truants in New York Catholic Protectory		10,000 00

Water.

1063	Borough of Brooklyn	$200 00	
1064	Borough of Queens	5,000 00	
1065	Borough of Richmond	1,700 00	
			6,900 00
			5,029,098 03
			$5,448,418 03

GENERAL SCHOOL FUND.

1066 For the General School Fund for the year 1910 the equivalent of three mills on every dollar of assessed valuation of the Real and Personal Estate in The City of New York, liable to taxation, as certified to the Board of Education by the Department of Taxes and Assessments, including so much of the State School Money apportioned by the Superintendent of Public Instruction to The City of New York, or any of the Counties contained therein, which State School Money when received shall be paid into the General Fund for the Reduction of Taxation $21,751,501 68

Additional amount allowed for the year 1910, in excess of the product of the three-mill tax 1,378,512 72

23,130,014 40

28,578,432 43

In accordance with the provisions of section 1060 of the Greater New York Charter, the appropriation for the General School Fund for the year 1910 is made in bulk and for the City at large, but in making said allowance the Board of Estimate and Apportionment hereby recommends that it be apportioned among the various purposes of General School Fund Expenditure in the following manner and amounts:

RECOMMENDED APPORTIONMENT OF GENERAL SCHOOL FUND.

Day Elementary Schools, Including Model Teachers, Substitutes and Other Per Diem Teachers	$18,078,702 54	
Day High Schools, Including Substitutes	2,535,036 22	
Training Schools for Teachers, Excluding Model Teachers	130,000 00	
Vocational Schools	57,400 00	
Parental and Truant Schools	19,893 00	
Evening High Schools	279,953 00	
Evening Trade Schools	54,467 00	
Evening Elementary Schools	411,786 00	
Vacation Schools, Playgrounds, Recreation Centres and Baths	225,000 00	
General Supervision	290,000 00	
Special Branches in Day Elementary Schools	591,376 64	
Attendance Officers	125,400 00	
Corporate Schools	250,000 00	
Lecturers' Fees	81,000 00	
		$23,130,014 40

THE COLLEGE OF THE CITY OF NEW YORK.

1067	Salaries of the Teaching Force		$440,350 00

OFFICE OF THE PRESIDENT.

1068	Salaries and Wages—		
	Secretary and Registrar	$2,150 00	
	Secretary to the President	2,100 00	
	Stenographers, 2 at $900	1,800 00	
	Assistant in Office and Repository	960 00	
	Clerks, 2 at $600	1,200 00	
	Clerks, 2 at $480	960 00	
	Clerks, 2 at $300	600 00	
			9,770 00

OFFICE OF THE CURATOR.

1069	Salaries and Wages—		
	Curator and Auditor	$4,750 00	
	Assistant Curator	2,500 00	
	Assistant Librarian	1,750 00	
	Stenographer and Typewriter	900 00	
	Engineer	2,250 00	
	Engineer	1,200 00	
	Electrician	1,800 00	
	First Assistant Engineer	1,800 00	
	Mechanicians, 2 at $1,200	2,400 00	
	Watchmen	900 00	
	Helper	720 00	
	Monitor Helper	720 00	
	Clerk	900 00	
	Clerk	600 00	
	Clerk	300 00	
	Elevator Attendant	480 00	
	Cleaners, 6 at $720	4,320 00	
	Cleaner	540 00	
	Cleaner	876 00	
	Laborer	720 00	
	Coal Passers, not to exceed $2.50 a day	1,825 00	
	Stationary Engineers, not to exceed $4.50 a day	9,212 50	
	Plumbers, not to exceed $5 a day	1,565 00	
	Pipefitters, not to exceed $5 per day	1,565 00	
	Oilers, not to exceed $3 a day	15,330 00	
	Stokers, not to exceed $3 a day	11,680 00	
	Laborers	1,252 00	
	Carpenters, not to exceed $5 a day	1,565 00	
	Cleaners	1,252 00	
			75,672 50
1070	General Supplies		31,931 33
1071	Materials for Repairs and Replacements by Departmental Labor		3,368 40
1072	Repairs and Replacements by Contract or Open Order		5,800 00
1073	Fuel		25,000 00
1074	Telephone Service		750 00
1075	Contingencies		2,882 50
1076	Special Contract Obligations—Compensation of Janitor		18,435 00
			613,959 73

NORMAL COLLEGE OF THE CITY OF NEW YORK.

1077	Salaries of the Teaching Force		$322,170 00
1078	Administration, Salaries and Wages—		
	Secretary of the College	$2,000 00	
	Secretary of the Board of Trustees	500 00	
	Superintendent of Buildings	500 00	
	Auditor	500 00	
	Clerk to Faculty	750 00	
	Stenographer	1,000 00	
	Stenographer and Typewriter	300 00	
	Bell Ringer	100 00	
	Clerk	400 00	
			6,050 00
1079	General Supplies		22,950 00
1080	Repairs and Replacements by Contract or Open Order		3,500 00
1081	Fuel		3,000 00
1082	Telephone Service		600 00
1083	Contingencies		2,500 00
1084	Special Contract Obligations—Compensation of Janitor		5,500 00
			366,270 00

BROOKLYN DISCIPLINARY TRAINING SCHOOL FOR BOYS.

1085	Salaries and Wages—		
	Superintendent	$3,000 00	
	House Mother	720 00	
	Chaplains, 3 at $120	360 00	
	Physician	600 00	
	Stereoptician	120 00	
	Stenographer	900 00	
	Clerk	1,000 00	
	Enginemen, not to exceed $4.50 a day	3,285 00	
	Shoemaker	900 00	
	Helper	720 00	
	Printer	720 00	
	Tailor	720 00	
	Hospital Helper	480 00	
	Caretaker	700 00	
	Caretakers, 6 at $720	4,320 00	
	Teachers, 3 at $720	2,160 00	
	Seamstresses, 2 at $300	600 00	
	Cleaners, 4 at $240	960 00	
	Cleaner	180 00	
	Cook	360 00	
	Cook	240 00	
	Laundress	300 00	
	Laundress	240 00	
	Stableman	360 00	
	Investigator	720 00	
	Painter	720 00	
	Gardener	720 00	
	Orderly	180 00	
			$26,285 00
1086	General Supplies		28,011 00
1087	Materials for Repairs and Replacements by Departmental Labor		1,800 00
1088	Forage, Shoeing and Boarding Horses		450 00
1089	Telephone Service		450 00
1090	Contingencies		2,294 00
			59,290 00

COMMISSIONERS OF ACCOUNTS.

GENERAL ADMINISTRATION.

1091	Salaries, Commissioners of Accounts, 2 at $5,000		$10,000 00
1092	Salaries and Wages, Chief Accountant, Chief Clerk, Stenographers—		
	Chief Accountant	$4,000 00	
	Chief Clerk	2,000 00	
	Stenographer and Typewriter	1,500 00	
	Stenographers and Typewriters, 2 at $1,200	2,400 00	
			9,900 00
1093	Salaries and Wages, Accounting Staff—		
	Chief Examiner of Accounts	$4,000 00	
	Chief Examiners of Accounts, 3 at $3,500	10,500 00	
	Chief Examiners of Accounts, 6 at $3,000	18,000 00	
	Chief Examiners of Accounts, 5 at $2,500	12,500 00	
	Examiner of Accounts	2,250 00	
	Examiner of Accounts	2,100 00	
	Examiners of Accounts, 3 at $2,000	6,000 00	
	Examiners of Accounts, 7 at $1,800	12,600 00	
	Examiners of Accounts, 3 at $1,500	4,500 00	
	Accountants, 8 at $2,400	19,200 00	
	Accountants, 7 at $2,100	14,700 00	
	Accountants, 4 at $1,950	7,800 00	
	Accountants, 2 at $1,750	3,500 00	
	Accountants, 4 at $1,650	6,600 00	
	Clerks, 4 at $1,650	6,600 00	
	Clerks, 2 at $1,500	3,000 00	
	Clerks, 4 at $1,200	4,800 00	
	Clerk	1,050 00	
	Clerks, 4 at $900	3,600 00	
	Clerks, 2 at $750	1,500 00	
	Clerks, 2 at $480	960 00	
	Clerk	300 00	
			146,060 00
1094	Salaries and Wages, Inspection Staff, Engineering and Special—		
	Chief Engineer	$4,500 00	
	Examining Engineer	3,500 00	
	Examining Engineer	2,200 00	
	Law Examiner	2,500 00	
	Examining Inspector	2,250 00	
	Examining Inspectors, 4 at $1,800	7,200 00	
	Examining Inspectors, 5 at $1,500	7,500 00	
	Examiner	1,200 00	
			30,850 00
1095	General Supplies		1,579 00
1096	Telephone Service		900 00
1097	Contingencies, including Special Examinations		20,100 00
			219,389 00

COMMISSIONER OF LICENSES.

1098	Salaries—		
	Commissioner of Licenses	$5,000 00	
	Deputy Commissioner	3,500 00	
	Secretary	2,000 00	
	Chief Inspector	3,000 00	
	Deputy Chief Inspector	2,000 00	
	Supervising Inspectors, 2 at $2,100	4,200 00	
	Inspectors of Licenses, 15 at $1,500	22,500 00	
	Stenographer	1,500 00	
	Law and Complaint Clerk	2,000 00	
	Financial and Recording Clerk	2,000 00	
	Telephone Operator	900 00	
	Clerk	300 00	
			48,900 00
1099	General Supplies		400 00
1100	Telephone Service		400 00
1101	Contingencies		4,130 00
			53,830 00

BOARD OF CORONERS, MANHATTAN.

1102	Salaries—		
	Coroners, 4 at $6,000	$24,000 00	
	Physicians, 4 at $3,000	12,000 00	
	Clerk to Board	3,000 00	
	Stenographer	2,500 00	
	Replevin and Property Clerk	2,200 00	
	Assistant Property Clerk	1,500 00	
	Assistant Clerks, 2 at $1,800	3,600 00	
	Assistant Clerks, 2 at $1,500	3,000 00	
	Coroners' Private Clerks, 4 at $2,000	8,000 00	
			$59,800 00
1103	General Supplies		251 00
1104	Contingencies		2,378 00
1105	Telephone Service		2,000 00
			64,429 00

BOARD OF CORONERS, THE BRONX.

1106	Salaries—		
	Coroners, 2 at $6,000	$12,000 00	
	Coroners' Physicians, 2 at $3,000	6,000 00	
	Chief Clerk	3,000 00	
	Replevin Clerk	1,600 00	
	Clerk to Coroner	1,600 00	
	Stenographer	2,000 00	
			$26,200 00
1107	Contingencies		2,360 00
1108	Telephone Service		800 00
			29,360 00

BOARD OF CORONERS, BROOKLYN.

1109	Salaries—		
	Coroners, 2 at $6,000	$12,000 00	
	Coroners' Physicians, 2 at $3,000	6,000 00	

Salaries—

Chief Clerk	3,000 00		
Stenographer	1,950 00		
Assistant Clerks, 3 at $1,500	4,500 00		
Assistant Clerk	1,200 00		
Replevin Clerk	1,200 00		
		$29,850 00	
1110 Contingencies		2,182 00	
1111 Telephone Service		444 00	
			32,476 00

BOARD OF CORONERS, QUEENS.

1112 Salaries—

Coroners, 2 at $4,000	$8,000 00		
Coroners' Physicians, 3 at $1,500	4,500 00		
Chief Clerk	3,000 00		
Stenographer	1,500 00		
Clerks to Coroners, 2 at $1,200	2,400 00		
Night and Replevin Clerk	1,000 00		
		$20,400 00	
1113 Contingencies		2,500 00	
1114 Telephone Service		500 00	
			23,400 00

BOARD OF CORONERS, RICHMOND.

1115 Salaries—

Coroner	$4,000 00		
Chief Clerk	1,500 00		
Coroner's Physician	1,500 00		
Stenographer	1,200 00		
Clerk to Coroner	1,500 00		
Assistant Clerk	1,500 00		
		$11,200 00	
1116 General Supplies		250 00	
1117 Contingencies		1,500 00	
1118 Telephone Service		300 00	
			13,250 00

MUNICIPAL CIVIL SERVICE COMMISSION.

ADMINISTRATION.

1119 Salaries and Wages—

President	$6,000 00		
Commissioners, 2 at $5,000	10,000 00		
Secretary	5,000 00		
Assistant Secretary	4,000 00		
Labor Clerk	3,500 00		
Chief Clerk	3,000 00		
Clerks, 2 at $2,400	4,800 00		
Clerks, 3 at $2,100	6,300 00		
Clerks, 3 at $1,800	5,400 00		
Clerks, 5 at $1,500	7,500 00		
Clerks, 2 at $1,350	2,700 00		
Clerks, 3 at $1,200	3,600 00		
Clerk	900 00		
Clerks, 5 at $750	3,750 00		
Clerk	540 00		
Clerks, 9 at $480	4,320 00		
Clerks, 3 at $300	900 00		
Stenographers and Typewriters, 2 at $1,500	3,000 00		
Stenographers and Typewriters, 2 at $1,350	2,700 00		
Stenographer and Typewriter	1,200 00		
Stenographers and Typewriters, 2 at $1,050	2,100 00		
Stenographer and Typewriter	900 00		
Telephone Operator	1,050 00		
Chief Examiner	4,200 00		
Assistant Chief Examiners, 2 at $3,500	7,000 00		
Medical Examiner	2,400 00		
Examiners, 3 at $2,700	8,100 00		
Examiner	2,400 00		
Examiner	2,100 00		
Examiners, 5 at $1,800	9,000 00		
Examiner	1,500 00		
Examiner	1,200 00		
Examiners, per day, $10 per session	15,000 00		
Experts	2,500 00		
Monitors	7,000 00		
		$145,560 00	
1120 General Supplies		614 00	
1121 Telephone Service		1,050 00	
1122 Contingencies		6,812 00	
			154,036 00

BOARD OF ASSESSORS.

1123 Salaries—

Assessors, 3 at $5,000	$15,000 00		
Secretary	5,000 00		
Stenographer	2,250 00		
Clerk	2,100 00		
Clerks, 4 at $1,950	7,800 00		
Clerks, 3 at $1,500	4,500 00		
Clerk	1,350 00		
Stenographer and Typewriter	1,650 00		
Topographical Draftsman	1,650 00		
Messenger	1,200 00		
		$42,500 00	
1124 General Supplies		1,100 00	
1125 Telephone Service		400 00	
1126 Contingencies		500 00	
			$44,500 00

EXAMINING BOARD OF PLUMBERS.

1127 Salaries—

Examiners, 3 at $5 per session	$4,545 00		
Clerk, Stenographer and Typewriter	1,200 00		
		$5,745 00	
1128 General Supplies		379 00	
			$6,124 00

DEPARTMENT OF TAXES AND ASSESSMENTS.

1129 Salaries and Wages—

President	$8,000 00		
Commissioners, 6 at $7,000	42,000 00		
Secretary	4,000 00		
Assistant Secretary	3,500 00		
Assistant to Commissioner	4,500 00		
Assistants to Commissioners, 6 at $2,500	15,000 00		
Deputy Tax Commissioners, 4 at $3,500	14,000 00		
Deputy Tax Commissioners, 3 at $3,250	9,750 00		
Deputy Tax Commissioners, 3 at $3,000	9,000 00		
Deputy Tax Commissioners, 11 at $2,850	31,350 00		
Deputy Tax Commissioners, 12 at $2,700	32,400 00		
Deputy Tax Commissioners, 5 at $2,550	12,750 00		
Deputy Tax Commissioner	2,400 00		
Deputy Tax Commissioners, 10 at $2,250	22,500 00		
Deputy Tax Commissioners, 11 at $2,100	23,100 00		
Deputy Tax Commissioners, 16 at $1,950	31,200 00		
Deputy Tax Commissioners, 5 at $1,800	9,000 00		
Surveyor	7,000 00		
Chief Deputy of Real Estate	7,000 00		
Assistant Chief Deputy of Real Estate	4,500 00		
Chief Deputy of Personal Estate	4,000 00		
Expert Real Estate Appraiser	4,000 00		
Chief Clerk	3,000 00		
Chief Clerks, 3 at $2,550	7,650 00		
Clerks, 4 at $1,800	7,200 00		
Clerks, 5 at $1,650	8,250 00		
Clerks, 19 at $1,500	28,500 00		
Clerks, 10 at $1,350	13,500 00		
Clerks, 18 at $1,200	21,600 00		
Clerks, 21 at $1,050	22,050 00		
Clerks, 17 at $900	15,300 00		
Clerks, 23 at $750	17,250 00		
Clerks, 7 at $600	4,200 00		
Clerk	540 00		
Searchers, 2 at $1,350	2,700 00		
Searchers, 5 at $1,200	6,000 00		
Confidential Stenographers, 3 at $1,500	4,500 00		
Confidential Stenographer	1,350 00		
Confidential Stenographers, 3 at $1,200	3,600 00		
Messenger	1,650 00		
Messengers, 2 at $1,500	3,000 00		
Messenger	1,200 00		
Office Attendant	1,200 00		
Book Typewritist	1,050 00		
Book Typewritist	900 00		
Book Typewritists, 2 at $750	1,500 00		
		$478,640 00	
1130 General Supplies		3,630 00	
1131 Telephone Service		750 00	
1132 Contingencies		10,620 00	
			493,640 00

BOARD OF ESTIMATE AND APPORTIONMENT.

GENERAL ADMINISTRATION.

1133 Salaries—

Secretary	$7,500 00		
Assistant Secretary	4,000 00		
Clerk to the Board	4,000 00		
Stenographer to the Board	3,500 00		
Clerk	3,000 00		
Clerk	2,100 00		
Clerk	1,200 00		
Clerk	750 00		
Stenographers and Typewriters, 3 at $1,500	4,500 00		
Stenographers and Typewriters, 3 at $1,350	4,050 00		
Messenger	1,500 00		
Telephone Operator	750 00		
Office Boy	300 00		
		$37,150 00	

PUBLIC IMPROVEMENTS AND FRANCHISES.

Office of Chief Engineer.

1134 Salaries—

Chief Engineer	$12,000 00		
Assistant Engineer	3,000 00		
Stenographer and Secretary	2,250 00		
		$17,250 00	

Division of Public Improvements.

1135 Salaries—

Engineer in Charge	$6,000 00		
Assistant Engineer	3,000 00		
Assistant Engineer	2,400 00		
Assistant Engineer	2,250 00		
Topographical Draftsman	2,000 00		
Topographical Draftsman	1,800 00		
Topographical Draftsmen, 2 at $1,500	3,000 00		
Stenographer and Typewriter	1,500 00		
Stenographer and Typewriter	1,150 00		
Clerk	1,350 00		

Salaries—
Clerk 540 00
Clerk ..... 480 00 — 25,470 00

Division of Franchises.

1136 Salaries—
Engineer in Charge $6,000 00
Assistant Engineer 3,300 00
Assistant Engineers, 2 at $2,400 ..... 4,800 00
Assistant Engineer 2,100 00
Topographical Draftsman 1,800 00
Clerk 2,850 00
Clerk 2,100 00
Clerk 1,500 00
Clerk 1,050 00
Clerk 300 00
Law Clerk 1,650 00
Stenographer and Typewriter 1,200 00
Stenographers and Typewriters, 2 at $1,050 2,100 00
Clerks, 2 at $600 ..... 1,200 00 — 31,950 00 — 74,670 00
1137 Fees of Consulting Architects and Engineers 10,000 00
1138 Contingencies ..... 12,000 00 — 133,820 00

PERMANENT CENSUS BOARD.

1139 Salaries and Wages—
Secretary $4,000 00
Stenographer 1,200 00
Clerks, 6 at $1,200 ..... 7,200 00
Clerks, 7 at $1,050 ..... 7,350 00
Clerks, 7 at $900 ..... 6,300 00 — $26,050 00
1140 General Supplies 7,500 00
1141 Contingencies ..... 1,000 00 — 34,550 00

THE ARMORY BOARD.

General Administration.

1142 Salaries—
Secretary $2,500 00
Stenographer and Typewriter 2,100 00
Inspector of Repairs and Supplies 2,000 00
Inspector of Repairs and Supplies 1,500 00
Inspector of Repairs and Supplies 1,200 00
Stenographer 1,500 00
Inspector of Masonry 1,200 00
Inspector of Fuel ..... 750 00 — $12,750 00
1143 Contingencies ..... 500 00 — $13,250 00

Maintenance of Armories.

Boroughs of Manhattan and The Bronx.

1144 Repairs and Supplies—
Seventh Regiment $6,000 00
Eighth Coast Artillery District. 5,000 00
Ninth Coast Artillery District.. 4,500 00
Twelfth Regiment 4,500 00
Twenty-second Regiment 5,500 00
Sixty-ninth Regiment 4,500 00
Seventy-first Regiment 4,500 00
Squadron "A" 6,000 00
First Battery 3,000 00
Second Battery 3,000 00
First Company Signal Corps.... 1,000 00
Headquarters First Brigade.... 500 00
First Battalion Naval Militia.. 5,000 00
Headquarters Naval Militia.... 500 00
Headquarters N. G., N. Y..... 400 00
Field Hospital 2,000 00
Headquarters First Battalion Field Artillery ..... 350 00 — $56,250 00
1145 Contingencies ..... 2,500 00 — $58,750 00

Boroughs of Brooklyn and Queens.

1146 Repairs and Supplies—
Thirteenth Coast Artillery District $6,500 00
Fourteenth Regiment 4,500 00
Twenty-third Regiment 5,750 00
Forty-seventh Regiment 4,500 00
Squadron "C" 5,000 00
Third Battery 3,000 00
Second Company Signal Corps.. 2,200 00
Second Battalion Naval Militia. 4,500 00
Headquarters Second Brigade.. 500 00
Company "I," Tenth Regiment. 1,500 00
Chief of Coast Artillery ..... 500 00 — $38,450 00
1147 Contingencies ..... 1,500 00 — 39,950 00 — 98,700 00 — 111,950 00

FOR LIBRARY PURPOSES.

New York Public Library, Astor, Lenox and Tilden Foundations.

1148 Salaries—
Librarians and Assistants $329,480 00
Janitors' Wages ..... 20,305 00 — $349,785 00
1149 Books, Binding, etc.—
Books $103,830 00
Periodicals 12,980 00
Binding ..... 21,500 00 — 138,310 00
1150 Supplies—
Catalogue Materials $1,800 00
Printing 2,600 00
Postage, Stationery and Sundries 28,000 00
Janitors' Supplies and Cost of Cleaning... 15,980 00 — 48,380 00
1151 Telephone Service 3,000 00
1152 Furniture and Repairs of 5,000 00
1153 Light, Heat, Water and Insurance—
Light $42,000 00
Heat ..... 16,120 00 — 58,120 00
1154 Rentals 180 00
1155 Repairs to Buildings and Grounds ..... 18,037 00 — $620,812 00

Brooklyn Public Library.

1156 Salaries—
Librarians and Assistants $203,292 00
Janitors' Wages ..... 26,386 00 — $229,678 00
1157 Books, Binding, etc.—
Books $62,500 00
Periodicals 9,375 00
Binding ..... 22,100 00 — 93,975 00
1158 Supplies—
Catalogue Materials $2,498 00
Printing 8,000 00
Postage, Stationery and Sundries 11,400 00
Janitors' Supplies and Cost of Cleaning.. 3,895 00 — 25,793 00
1159 Telephone Service 2,798 00
1160 Furniture and Repairs of 5,150 00
1161 Light, Heat, Water and Insurance—
Light $30,900 00
Heat ..... 8,590 00 — 39,490 00
1162 Rentals 13,805 00
1163 Repairs to Buildings and Grounds ..... 14,050 00 — 424,739 00

The Queens Borough Public Library.

1164 Salaries—
Librarians and Assistants $57,460 00
Janitors' Wages ..... 7,340 00 — $64,800 00
1165 Books, Binding, etc.—
Books $17,500 00
Periodicals 1,990 00
Binding ..... 3,000 00 — 22,490 00
1166 Supplies—
Catalogue Materials $1,000 00
Printing 1,500 00
Postage, Stationery and Sundries 4,300 00
Janitors' Supplies and Cost of Cleaning... 500 00 — 7,300 00
1167 Telephone Service 1,300 00
1168 Furniture and Repairs of 1,480 00
1169 Light, Heat, Water and Insurance—
Water $90 00
Light 5,065 00
Heat ..... 1,610 00 — 6,765 00
1170 Rentals 8,250 00
1171 Repairs to Buildings and Grounds ..... 7,822 00 — 120,207 00 — 1,165,758 00

THE CITY COURT OF NEW YORK.

1172 Salaries—
Justices, 10 at $12,000 ..... $120,000 00
Stenographers, 9 at $3,000 ..... 27,000 00
Clerk 6,000 00
Deputy Clerk 3,000 00
Deputy Clerks, 5 at $2,000 ..... 10,000 00
Interpreters, 3 at $2,000 ..... 6,000 00
Assistant Clerks, 15 at $1,800 ..... 27,000 00
Attendants, 22 at $1,500 ..... 33,000 00 — $232,000 00
1173 Contingencies 1,700 00
1174 Telephone Service ..... 300 00 — 234,000 00

CITY MAGISTRATES' COURTS, FIRST DIVISION.

1175 Salaries—
City Magistrates, 16 at $7,000 ..... $112,000 00
Secretary to Board of Magistrates 500 00
Police Clerks, 9 at $2,500 ..... 22,500 00
Assistant Police Clerks, 26 at $2,000 ..... 52,000 00
Stenographers, 11 at $2,000 ..... 22,000 00
Interpreters, 8 at $1,500 ..... 12,000 00
Attendant 1,200 00
Female Probation Officers, 8 at $900 ..... 7,200 00 — $229,400 00

1176	General Supplies	$2,000 00		
1177	Telephone Service	1,500 00		
1178	Contingencies	1,000 00		
			4,500 00	
				233,900 00

CITY MAGISTRATES' COURTS, SECOND DIVISION.

1179	Salaries—			
	City Magistrates, 10 at $6,000	$60,000 00		
	City Magistrates, 6 at $5,000	30,000 00		
	Secretary to Board of Magistrates	500 00		
	Police Clerks, 10 at $2,500	25,000 00		
	Police Clerks, 6 at $2,000	12,000 00		
	Assistant Clerks, 27 at $1,800	48,600 00		
	Stenographers, 10 at $2,000	20,000 00		
	Stenographers, 6 at $1,800	10,800 00		
	Interpreters, 10 at $1,200	12,000 00		
	Male Probation Officers, 5 at $1,200	6,000 00		
	Female Probation Officers, 10 at $900	9,000 00		
	Female Probation Officers, 6 at $600	3,600 00		
			$237,500 00	
1180	General Supplies	$400 00		
1181	Telephone Service	3,000 00		
1182	Contingencies	1,600 00		
			5,000 00	
				242,500 00

THE CITY OF NEW YORK.

FOR CHARITABLE INSTITUTIONS.

Conditions Governing Payments to Charitable Institutions.

The appropriations in this Budget are made subject to the following conditions:

1. The accounts and records of all charitable institutions receiving public moneys shall be so kept as to show all receipts, disbursements and population in such form as shall be satisfactory to the Comptroller. Records must show the addresses of parents, guardians or nearest relatives of inmates and other information designed to facilitate inquiry into their financial inability to make provision for dependents in the institutions.

2. Moneys received from the City Treasury shall be used by such institutions for recurring expenses of "care, support, education and maintenance."

3. All institutions receiving public moneys and all their books of record and accounts shall at all reasonable times be open to the visitation, inspection and examination of duly authorized representatives of the Department of Finance and at all proper times the Department of Public Charities shall have access to the record of inmates.

4. Upon its appearing to the satisfaction of the Comptroller that it would be to the public interest to withhold payments to any charitable institution for which an apportionment has been made, he shall in his discretion suspend payments and give written notice to such institution of his intention to apply to the Board of Estimate and Apportionment for authority to cease making further payments, and upon the determination of said Board that such payments shall terminate, the right of any such institution to receive payment for services rendered thereafter shall thereupon end.

5. Where apportionments are made upon a per capita basis for inmates of private charitable institutions, there will be no payments unless the inmates shall have been accepted by the Commissioner of the Department of Public Charities as proper charges against the City; and except in emergency cases, the Commissioner of Charities shall not accept as proper charges persons capable of paying for their own support, or for whose care adequate provision can be made in public hospitals.

In determining the acceptance of patients in private hospitals as proper charges, the Commissioner of Charities shall first consider the nature of the services actually rendered to the patients by the hospitals. The records of the institutions and the bed-card notes showing the treatment given shall be received as the essential evidence in deciding acceptances or rejections. *The City shall not be liable for any payment to charitable institutions in excess of the apportionment which may have been made to such institutions, notwithstanding the acceptances of the Commissioner of Charities or any per capita rates of payment that may have been fixed for the inmates thereof.*

6. All institutions receiving money from the City are required to state specifically the amount so received, as from the City Treasury, in their printed annual reports.

7. No money shall be paid to any private charitable institution which pays any salary to or gives any consideration, financial or of any kind, for services to, or that has any business dealing with, or secures goods or merchandise, directly or indirectly, from any officer or trustee or member of its Board of Managers.

8. That charitable institutions for children now carried in the Budget and not sending their inmates to the Public Schools, and not sharing in the Corporate School Fund, and not receiving teachers and school supplies from the Board of Education, but giving in their own building secular education to the children resident in the institutions, shall be paid a per capita of 7 cents per day, five school days in the week, for each child of four years of age and over receiving such instruction during public school year. This money to be paid under the authorization of section 230 of the Charter, but under the general conditions relating to institutions receiving Corporate School money, as provided in section 1154.

9. Magistrates are requested to transfer dependent, and when judicious, no proper guardianship children, and all cases coming to their attention in the courts where no crime is proven against the child, to the Commissioner of Charities, who can commit to institutions. Magistrates are earnestly requested not to commit a dependent child to an institution on a court commitment.

10. The Commissioner of Charities is instructed to take such steps, either by appeal to the national authorities or by proper bills to the Legislature, as to provide that the children of emigrants abandoned within one year after arrival in this City be returned to the country whence they came.

11. No dependent child under sixteen years of age shall be accepted as a proper charge upon the City and no money will be paid for the care, support, maintenance or education of such child unless it shall have been lawfully committed to a suitable private charitable institution having its own plant and equipment for the proper protection and care of children, under the supervision of the State Board of Charities, and has been placed in this Budget by the Board of Estimate and Apportionment.

This order has no relation to the class of children of such mental and physical condition as those cared for in the City Institution at Randalls Island.

12. The rates of payments to private charitable institutions, unless otherwise specially provided for, are fixed for the various classes of inmates as follows:

For infants under two (2) years of age, and in general hospitals under the age of five (5), per day	$0 45
For dependent children from two (2) to sixteen (16) years of age, per week	2 25
For delinquent children, per annum	135 00
For children in Cottage Villages, not to exceed 30 inmates in each cottage, additional per week	50
For adult inmates of Reformatories, committed by the Courts, per annum	135 00
For inmates in homes for unfortunate and friendless females, per annum	110 00
*For homeless mothers nursing infants, per month	12 00
*For cases in maternity hospitals and emergency cases in general hospitals, per case	18 00
To hospitals for medical treatment, per day	1 00
To hospitals for surgical treatment, per day	1 10
To hospitals for consumptive patients, per day	80
To hospitals for cancer patients, per day	80
For the chronic, incurable or infirm, per day	40
For blind babies, per day	60
For defective children in institutions maintained exclusively for such, per day	50
For disbursements in placing or indenturing children in homes, per child	20 00
For annual supervision of children placed in homes, per annum	5 00
For annual supervision of children placed in homes in The City of New York	2 50
†For vocational training in suitably equipped institutions, furnished with standard appointments, outfit, material and special instructors, per annum	50 00
For services of an ambulance, per annum	1,200 00

For services of Custodian, first year, $900; second year, $1,050; thereafter, $1,200 per annum.

Payments are made to the following named institutions under Laws of 1901, chapter 466, section 230:

1183	Asylum of the Sisters of St. Dominic	$85,775 88
1184	Asylum of St. Vincent de Paul	9,649 50
1185	Association for Befriending Children and Young Girls (House of the Holy Family)	5,496 76
1186	American Female Guardian Society and Home for the Friendless—For the care and education of poor children in the Industrial Schools, and not in the Home School (in addition to the apportionment of Corporate School Fund), at a per capita of 70 cents per school month during ten months in the year	43,970 88
1187	Brooklyn Howard Colored Orphan Asylum	27,270 64
1188	Brooklyn Training School and Home for Young Girls	2,322 00
1189	Bushwick and East Brooklyn Dispensary Association	250 00
1190	Brooklyn Industrial School Association and Home for Destitute Children	31,003 08
1191	Beth Israel Hospital	35,481 36
1192	Brooklyn Nursery and Infants' Hospital	10,968 10
1193	Brooklyn Hospital	14,636 70
1194	Bushwick Hospital	4,525 48
1195	Brooklyn Central Dispensary	250 00
1196	Brooklyn Eastern District Homeopathic Dispensary	250 00
1197	Brooklyn Home for Consumptives	18,851 20
1198	Brooklyn Children's Aid Society	16,400 18
1199	For Seaside Home, payable in twelve monthly installments	3,500 00
1200	Brooklyn Society for the Prevention of Cruelty to Children, payable in twelve monthly installments	20,000 00
1201	Brooklyn Hebrew Orphan Asylum	60,581 30
1202	Brooklyn City Dispensary	250 00
1203	Brooklyn Eastern District Dispensary and Hospital	9,054 80
1204	Colored Orphan Asylum and Association for the Benefit of Colored Children in The City of New York	25,864 98
1205	Columbus Hospital	11,341 90
1206	Church Charity Foundation of Long Island (Home for the Blind)—For inmates accepted by the Department of Public Charities, at the rate of $110 per annum each	327 30
1207	Orphan House	6,910 06
1208	St. John's Hospital	8,223 40
1209	Children's Aid Society—For inmates accepted by the Department of Public Charities, to wit: For the care and education of poor children in the Industrial Schools (in addition to the apportionment of the Corporate School Fund), at a per capita of 70 cents per school month during ten months in the year; for the support and training of homeless boys and girls in the lodging-houses and farm at a per capita of $50 per annum each	70,000 00
1210	Catholic Home Bureau	14,602 50
1211	Deutsche Poliklinik (Dispensary)	250 00
1212	Dominican Convent of Our Lady of the Rosary	122,288 50
1213	Flushing Hospital and Dispensary	13,006 44
1214	Five Points House of Industry	19,810 72
1215	Gates Avenue Homeopathic Dispensary	250 00
1216	German Hospital of Brooklyn	10,707 66
1217	German Odd Fellows' Home and Orphan Asylum	11,259 02
1218	German Hospital and Dispensary	29,351 68
1219	Good Counsel Training School for Young Girls	2,067 60
1220	Hebrew Infant Asylum of The City of New York	16,827 74
1221	Hebrew Sheltering Guardian Society	109,924 68
1222	Hebrew Orphan Asylum	155,906 14
1223	House of Calvary	5,865 60
1224	House of Mercy	7,773 98
1225	Hope Farm	15,930 48
1226	House of St. Giles the Cripple—For the care and maintenance of inmates accepted by the Department of Public Charities, at the rate of $150 per annum each	10,749 28
1227	House of the Good Shepherd	41,514 50

*Institutions shall be paid $18 for the care of the mother and child during fifteen days of her confinement, and for services thereafter shall be paid at the rate of 45 cents per day for the support of the child, and also $12 per month for the maintenance of the mother, if she remain in the institution nursing infant after the expiration of the fifteen days.

†Details obtained from the Department of Finance.

1228	Institution of Mercy	112,913 04
1229	Industrial School Association of Brooklyn, Eastern District	45,725 66
1230	International Sunshine Branch for the Blind	3,367 20
1231	Jamaica Hospital	8,219 18
1232	Lebanon Hospital Association	30,461 90
1233	Low Maternity (Branch of Brooklyn Hospital)	1,381 68
1234	Long Island College Hospital	26,035 60
1235	Lutheran Hospital Association (City of New York and Vicinity)	2,382 60
1236	Lincoln Hospital and Home	82,000 00
1237	Missionary Sisters, Third Order of St. Francis	107,966 24
1238	Mission of the Immaculate Virgin for the Protection of Homeless and Destitute Children	168,066 28
1239	Methodist Episcopal Hospital in the City of Brooklyn	10,958 44
1240	Maternity of the Long Island College Hospital	942 80
1241	Mary Immaculate Hospital	14,717 94
1242	Misericordia Hospital	24,615 36
1243	Manhattan Eye, Ear and Throat Hospital	8,089 20
1244	New York Catholic Protectory	294,929 70
1245	New York Juvenile Asylum	75,000 00
1246	New York Infant Asylum	126,748 34
1247	New York Foundling Hospital	369,441 38
1248	Nursery and Child's Hospital	5,725 28
1249	New York Eye and Ear Infirmary	12,018 70
1250	New York Post-Graduate Medical School and Hospital	16,908 06
1251	Northwestern Dispensary	250 00
1252	Northern Dispensary of The City of New York	250 00
1253	New York Polyclinic Medical School and Hospital	5,432 10
1254	New York Homeopathic Medical College and Hospital	25,220 00
1255	New York Infirmary for Women and Children	5,969 78
1256	New York Ophthalmic Hospital	6,200 82
1257	New Amsterdam Eye and Ear Hospital	250 00
1258	Norwegian Lutheran Deaconesses' Home and Hospital	9,478 10
1259	Northeastern Dispensary in The City of New York	250 00
1260	New York Magdalen Benevolent Society	4,788 24
1261	New York Society for the Prevention of Cruelty to Children, payable in twelve monthly installments	60,000 00
1262	New York Ophthalmic and Aural Institute	250 00
1263	Orphan Home (Brooklyn)	86,526 08
1264	Orphan Asylum Society of the City of Brooklyn	18,435 20
1265	Ottilie Orphan Asylum	4,685 02
1266	Peabody Home for Aged and Indigent Women—For the care and maintenance of inmates accepted by the Department of Public Charities, at the rate of 40 cents per diem	4,544 80
1267	Prospect Heights Hospital and Brooklyn Maternity	303 40
1268	Roman Catholic Orphan Asylum Society— St. Joseph's Female Orphan Asylum; St. John's Home	190,259 36
1269	Richmond County Society for the Prevention of Cruelty to Children. Payable in twelve monthly installments	1,000 00
1270	Roman Catholic House of the Good Shepherd	21,558 00
1271	St. Mark's Hospital of New York City	5,056 94
1272	St. Christopher's Hospital for Babies	4,482 30
1273	St. Mary's General Hospital of the City of Brooklyn	24,492 70
1274	St. Peter's Hospital	49,932 00
1275	St. Catharine's Hospital	33,457 62
1276	Society for the Aid of Friendless Women and Children	8,589 92
1277	St. John's Long Island City Hospital	42,447 16
1278	St. Zita's Home for Friendless Women	1,761 30
1279	St. John's Guild (payable in twelve monthly installments)	22,500 00
1280	Sanitarium for Hebrew Children (payable in twelve monthly installments)	7,500 00
1281	St. Vincent's Hospital of The City of New York	51,468 00
1282	St. Joseph's Hospital (Queens)	8,699 68
1283	St. Gregory Emergency Hospital	6,582 90
1284	Sydenham Hospital	9,640 40
1285	St. Joseph's Hospital (New York City)	102,245 60
1286	St. Francis' Hospital	65,426 00
1287	Sacred Heart Orphan Asylum	9,047 54
1288	St. Agatha Home for Children	69,428 32
1289	St. Michael's Home	25,817 72
1290	St. Joseph's Asylum	97,261 14
1291	St. Ann's Home for Destitute Children	43,678 02
1292	St. Malachy's Home	111,658 78
1293	Sheltering Arms Nursery of Brooklyn	5,526 24
1294	Sloane Maternity Hospital	14,402 88
1295	Seton Hospital, New York City	107,706 30
1296	St. Agnes' Hospital for Crippled and Atypical Children	23,865 48
1297	St. Vincent's Hospital, Borough of Richmond	37,169 20
1298	Samaritan Hospital of Brooklyn	783 86
1299	The Hospital of the Holy Family	26,000 00
1300	The Convent of the Sisters of Mercy in Brooklyn	171,535 94
1301	The New York Society for the Relief of the Ruptured and Crippled, for the care and maintenance of inmates accepted by the Department of Public Charities at the rate of $200 each per annum	23,915 06
1302	The Ozanam Home for Friendless Women	6,980 28
1303	Temporary Home for Children, of Queens County, N. Y.	2,321 36
1304	The Babies' Hospital of The City of New York	6,816 00
1305	The Harlem Eye, Ear and Throat Infirmary	250 00
1306	The Society of the Lying-in Hospital of The City of New York	24,489 20
1307	The Mount Sinai Hospital of The City of New York	73,869 56
1308	The J. Hood Wright Memorial Hospital	8,166 40
1309	The Jewish Hospital	26,882 64
1310	The Harlem Dispensary	250 00
1311	The Brooklyn Eye and Ear Hospital	7,477 90
1312	The S. R. Smith Infirmary	13,526 20
1313	The Jewish Protectory and Aid Society	50,100 00
1314	The Swedish Hospital in Brooklyn	3,973 34
1315	Williamsburg Hospital	11,390 16
1316	Washington Square Home for Friendless Girls	1,315 18
1317	West Side German Dispensary	250 00
1318	Wayside Home	2,058 66
1319	Washington Heights Hospital	3,845 30
1320	Yorkville Dispensary and Hospital for Women and Children	2,348 90
1321	Hospital for Deformities and Joint Diseases	4,034 68
1322	New York Medical College and Hospital for Women	500 00
1323	New York Red Cross Hospital	450 20
1324	Brooklyn Home for Blind, Crippled and Defective Children	15,144 80
1325	Rockaway Beach Hospital and Dispensary	3,000 00
1326	For Ambulances	36,125 00
1327	Jewish Maternity Hospital	15,000 00
1328	Har Moriah Hospital	3,000 00
1329	The Lakeview Home for Girls	2,000 00
1330	For Vocational Training	75,000 00
1331	The Philanthropic Hospital	1,000 00
1332	The Italian Hospital and Dispensaries	5,100 00
1333	The Societe Francaise de Bienfaisance	10,000 00
		4,734,252 26

RENTS.

1334	Rents	1,059,655 00

MISCELLANEOUS—CITY.

1335	Advertising, not otherwise provided for, including Arrearages	$175,000 00	
1336	Corporation Advertising, Borough of Brooklyn	100,000 00	
1337	Commissioners of the Sinking Fund, Expenses of	17,000 00	
1338	Salaries of General Interpreters, Borough of Brooklyn	12,900 00	
1339	Board of Building Examiners, Expenses of	11,000 00	
1340	United States Volunteer Life Saving Corps	11,000 00	
1341	For Expenses of the Art Commission	7,600 00	
1342	For Costs of Commitments of Insane Persons, pursuant to chapter 545, Laws of 1896	5,000 00	
1343	Widows and Orphans' Fund of Volunteer Fire Departments, Towns of Flatbush, Gravesend, New Utrecht and Flatlands	5,000 00	
1344	Widows and Orphans' Fund of Volunteer Fire Departments, Borough of Brooklyn (chapter 647, Laws of 1901)	5,000 00	
1345	Municipal Explosives Commission, Expenses of	4,000 00	
1346	Memorial Day Observances, Borough of Manhattan	3,000 00	
1347	Memorial Day Observances, Borough of Brooklyn	3,000 00	
1348	Board of Parole	4,600 00	
1349	Memorial Committee of the United Spanish War Veterans (chapter 360, Laws of 1906)	2,500 00	
1350	Kings County Volunteer Firemen's Association (chapter 658, Laws of 1895)	1,500 00	
1351	Hudson-Fulton Celebration Commission, Expenses of	1,365 00	
1352	For the Seventeenth Installment on Account of Sea Breeze Avenue, in the Borough of Brooklyn	961 21	
1353	Allowance to Veteran Associations for Decoration Day Observances, Borough of Brooklyn, pursuant to chapter 13, Laws of 1897	900 00	
1354	Annual Compensation to John T. Mayers, a former employee of the Fire Department, for damages (chapter 372, Laws of 1903)	800 00	
1355	Memorial Day Observances, Borough of The Bronx	800 00	
1356	Memorial Committee of the Army and Navy Union (chapter 360, Laws of 1906)	700 00	
1357	Memorial Day Observances, Borough of Queens	300 00	
1358	Memorial Day Observances, Borough of Richmond	300 00	
1359	Staten Island Association of Arts and Sciences	4,000 00	
1360	Board of Revision of Assessments	6,000 00	
			384,226 21

MUNICIPAL COURTS, CITY OF NEW YORK.

Borough of Manhattan.

First District Court.

1361	Salaries—			
	Justices, 3 at $8,000	$24,000 00		
	Clerk	3,000 00		
	Deputy Clerk	3,000 00		
	Assistant Clerks, 7 at $3,000	21,000 00		
	Stenographers, 3 at $2,000	6,000 00		
	Interpreters, 2 at $1,500	3,000 00		
	Attendants, 13 at $1,500	19,500 00		
1362	Contingencies	800 00		
			$80,300 00	

Second District Court.

1363	Salaries—			
	Justices, 4 at $8,000	$32,000 00		
	Clerk	3,000 00		
	Deputy Clerk	3,000 00		
	Assistant Clerks, 10 at $3,000	30,000 00		
	Stenographers, 4 at $2,000	8,000 00		
	Interpreters, 4 at $1,500	6,000 00		
	Attendants, 16 at $1,500	24,000 00		
1364	Contingencies	600 00		
			106,600 00	

Third District Court.

1365	Salaries—			
	Justices, 2 at $8,000	$16,000 00		
	Clerk	3,000 00		
	Deputy Clerk	3,000 00		
	Assistant Clerks, 2 at $3,000	6,000 00		
	Stenographers, 2 at $2,000	4,000 00		
	Interpreters, 2 at $1,500	3,000 00		
	Attendants, 6 at $1,500	9,000 00		
1366	Contingencies	400 00		
			44,400 00	

Fourth District Court.

1367	Salaries—			
	Justices, 2 at $8,000	$16,000 00		
	Clerk	3,000 00		
	Deputy Clerk	3,000 00		
	Assistant Clerks, 2 at $3,000	6,000 00		

Salaries—
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 5 at $1,500 ..... 7,500 00
1368 Contingencies 300 00
41,300 00

Fifth District Court.

1369 Salaries—
Justices, 3 at $8,000 ..... $24,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 3 at $2,000 ..... 6,000 00
Interpreter 1,500 00
Attendants, 5 at $1,500 ..... 7,500 00
1370 Contingencies 300 00
51,300 00

Sixth District Court.

1371 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 5 at $1,500 ..... 7,500 00
1372 Contingencies 300 00
41,300 00

Seventh District Court.

1373 Salaries—
Justices, 3 at $8,000 ..... $24,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 3 at $3,000 ..... 9,000 00
Stenographers, 3 at $2,000 ..... 6,000 00
Interpreter 1,500 00
Attendants, 6 at $1,500 ..... 9,000 00
1374 Contingencies 300 00
55,800 00

Eighth District Court.

1375 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerk 3,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 5 at $1,500 ..... 7,500 00
1376 Contingencies 300 00
38,300 00

Ninth District Court.

1377 Salaries—
Justices, 4 at $8,000 ..... $32,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 3 at $3,000 ..... 9,000 00
Stenographers, 4 at $2,000 ..... 8,000 00
Interpreter 1,500 00
Attendants, 5 at $1,500 ..... 7,500 00
1378 Contingencies 300 00
64,300 00
$523,600 00

BOROUGH OF THE BRONX.

First District Court.

1379 Salaries—
Justice $8,000 00
Clerk 3,000 00
Assistant Clerk 3,000 00
Stenographer 2,000 00
Attendants, 3 at $1,500 ..... 4,500 00
1380 Contingencies 300 00
$20,800 00

Second District Court.

1381 Salaries—
Justice $8,000 00
Clerk 3,000 00
Assistant Clerk 3,000 00
Stenographer 2,000 00
Interpreter 1,500 00
Attendants, 3 at $1,500 ..... 4,500 00
1382 Contingencies 300 00
22,300 00
43,100 00

BOROUGH OF BROOKLYN.

First District Court.

1383 Salaries—
Justice $8,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Stenographer 2,000 00
Interpreter 1,500 00
Attendants, 6 at $1,500 ..... 9,000 00
1384 Contingencies 300 00
$26,800 00

Second District Court.

1385 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 3 at $1,500 ..... 4,500 00
1386 Contingencies 350 00
38,350 00

Third District Court.

1387 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 6 at $1,500 ..... 9,000 00
1388 Contingencies 300 00
42,800 00

Fourth District Court.

1389 Salaries—
Justice $8,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Stenographer 2,000 00
Interpreter 1,500 00
Attendants, 3 at $1,500 ..... 4,500 00
1390 Contingencies 300 00
22,300 00

Fifth District Court.

1391 Salaries—
Justice $8,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Stenographer 2,000 00
Interpreter 1,500 00
Attendants, 3 at $1,500 ..... 4,500 00
1392 Contingencies 300 00
22,300 00

Sixth District Court.

1393 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 3 at $1,500 ..... 4,500 00
1394 Contingencies 300 00
38,300 00

Seventh District Court.

1395 Salaries—
Justices, 2 at $8,000 ..... $16,000 00
Clerk 3,000 00
Deputy Clerk 3,000 00
Assistant Clerks, 2 at $3,000 ..... 6,000 00
Stenographers, 2 at $2,000 ..... 4,000 00
Interpreter 1,500 00
Attendants, 6 at $1,500 ..... 9,000 00
1396 Contingencies 300 00
42,800 00
233,650 00

BOROUGH OF QUEENS.

First District Court.

1397 Salaries—
Justice $7,000 00
Clerk 2,000 00
Assistant Clerk 2,000 00
Stenographer 2,000 00
Attendants, 2 at $1,500 ..... 3,000 00
1398 Contingencies 300 00
$16,300 00

Second District Court.

1399 Salaries—
Justice $7,000 00
Clerk 2,000 00
Assistant Clerk 2,000 00
Stenographer 2,000 00
Interpreter 1,200 00
Attendants, 2 at $1,500 ..... 3,000 00
1400 Contingencies 300 00
17,500 00

Third District Court.

1401 Salaries—
Justice $7,000 00
Clerk 2,000 00
Assistant Clerk 2,000 00
Stenographer 2,000 00
Attendants, 2 at $1,500 ..... 3,000 00
1402 Contingencies 300 00
16,300 00

Fourth District Court.

1403	Salaries—			
	Justice	$7,000 00		
	Clerk	2,000 00		
	Deputy Clerk	2,000 00		
	Stenographer	2,000 00		
	Attendants, 2 at $1,500	3,000 00		
1404	Contingencies	300 00		
			16,300 00	
				66,400 00

BOROUGH OF RICHMOND.

First District Court.

1405	Salaries—			
	Justice	$7,000 00		
	Clerk	2,000 00		
	Assistant Clerk	2,000 00		
	Stenographer	2,000 00		
	Attendants, 2 at $1,500	3,000 00		
1406	Contingencies	300 00		
			$16,300 00	

Second District Court.

1407	Salaries—			
	Justice	$7,000 00		
	Clerk	2,000 00		
	Assistant Clerk	2,000 00		
	Interpreter	1,200 00		
	Stenographer	2,000 00		
	Attendants, 2 at $1,500	3,000 00		
1408	Contingencies	300 00		
			17,500 00	
				33,800 00

MISCELLANEOUS.

1409	Compensation for Assignment of Justices from Boroughs of Queens and Richmond to the Boroughs of Manhattan and The Bronx		$500 00	
1410	Compensation for Assignment of Justices from the Boroughs of Queens and Richmond to the Borough of Brooklyn		500 00	
1411	Compensation of Clerk acting as Secretary to Board of Justices		1,000 00	
1412	Compensation of Attendant designated as Attendant to Board of Justices		300 00	
1413	Contingencies, Board of Justices		250 00	
				2,550 00
				903,100 00

COURT OF SPECIAL SESSIONS, FIRST DIVISION.

1414	Salaries—			
	Justices, 6 at $9,000	$54,000 00		
	Clerk	5,000 00		
	Deputy Clerk	4,000 00		
	Deputy Clerk	2,000 00		
	Court Stenographer	3,000 00		
	Interpreter	2,000 00		
	Stenographer and Typewriter	1,500 00		
	Clerks, 3 at $1,800	5,400 00		
	Clerk	1,200 00		
	Process Servers, 7 at $1,200	8,400 00		
	Clerk	1,350 00		
	Male Probation Officer	1,500 00		
	Female Probation Officer	1,200 00		
			$90,550 00	
1415	Contingencies		3,500 00	
				94,050 00

CHILDREN'S COURT, FIRST DIVISION.

1416	Salaries—			
	Clerk	$3,000 00		
	Deputy Clerk	2,750 00		
	Stenographer	2,500 00		
	Assistant Clerk	2,250 00		
	Interpreter	1,950 00		
	Clerk	1,650 00		
	Clerk	1,000 00		
			$15,100 00	
1417	Contingencies		1,000 00	
				16,100 00

COURT OF SPECIAL SESSIONS, SECOND DIVISION.

1418	Salaries—			
	Justices, 6 at $6,000	$36,000 00		
	Clerk	3,000 00		
	Deputy Clerk	2,500 00		
	Assistant Clerk	1,500 00		
	Clerk, Borough of Queens	2,000 00		
	Clerk, Borough of Richmond	2,000 00		
	Stenographer	2,000 00		
	Interpreter	2,000 00		
	Interpreter	1,200 00		
	Court Attendant	1,800 00		
	Court Attendants, 6 at $1,200	7,200 00		
	Probation Officer (Female)	1,200 00		
	Probation Officer (Male)	1,200 00		
	Clerk	1,200 00		
	Assistant Clerk	2,000 00		
	Stenographer and Typewriter	1,200 00		
			$68,000 00	
1419	Supplies		700 00	
1420	Contingencies		1,475 00	
1421	Telephone Service		325 00	
				70,500 00

CHILDREN'S COURT, SECOND DIVISION.

1422	Salaries—			
	Clerk	$3,000 00		
	Deputy Clerk	2,000 00		
	Court Stenographer	2,000 00		
	Assistant Clerk	1,800 00		
	Interpreter	1,800 00		
	Court Attendant	1,200 00		
			$11,800 00	
1423	Supplies		275 00	
1424	Telephone Service		225 00	
1425	Contingencies		500 00	
				12,800 00

PRESIDENT, BOROUGH OF MANHATTAN.

GENERAL ADMINISTRATION.

1426	Salaries—			
	Borough President	$7,500 00		
	Commissioner of Public Works	6,000 00		
	Assistant Commissioner of Public Works	5,000 00		
	Borough Secretary	4,000 00		
	Auditor	4,000 00		
	Secretary to Commissioner of Public Works	2,500 00		
	Executive Clerk	2,400 00		
	Cashier	2,400 00		
	Clerks, 4 at $2,400	9,600 00		
	Clerks, 3 at $2,100	6,300 00		
	Clerk	1,800 00		
	Clerks, 6 at $1,500	9,000 00		
	Clerk	1,350 00		
	Clerk	1,200 00		
	Clerk	1,050 00		
	Clerk	900 00		
	Clerk	720 00		
	Stenographer and Typewriter	2,100 00		
	Stenographer and Typewriter to Borough President	1,500 00		
	Stenographers and Typewriters, 2 at $1,500	3,000 00		
	Stenographer and Typewriter	1,050 00		
	Messenger	1,500 00		
	Telephone Operator	1,050 00		
	Attendants, 2 at $1,050	2,100 00		
	Attendant	900 00		
			$78,920 00	
1427	Contingencies		4,000 00	
				$82,920 00

BUREAU OF ENGINEER OF STREET OPENINGS.

1428	Salaries—			
	Engineer	$5,000 00		
	Clerk	2,100 00		
	Assistant Engineer	1,800 00		
	Transitmen and Computers, 2 at $1,800	3,600 00		
	Topographical Draftsmen, 3 at $1,650	4,950 00		
	Mechanical Draftsman	1,650 00		
	Architectural Draftsman	1,650 00		
	Topographical Draftsmen, 2 at $1,500	3,000 00		
	Sounder	900 00		
	Rodmen, 5 at $900	4,500 00		
	Axemen, 6 at $900	5,400 00		
			$34,550 00	
1429	Contingencies		3,000 00	
				$37,550 00

BUREAU OF HIGHWAYS.

Administration.

1430	Salaries, Superintendent, Clerks and Office Force—			
	Superintendent	$5,000 00		
	Clerk	2,400 00		
	Clerk	2,350 00		
	Clerk	1,800 00		
	Clerks, 6 at $1,500	9,000 00		
	Clerks, 4 at $1,200	4,800 00		
	Clerks, 2 at $1,050	2,100 00		
	Clerks, 4 at $900	3,600 00		
	General Inspector	3,000 00		
	General Inspector	2,550 00		
	Confidential Inspector	1,800 00		
	Inspector	1,800 00		
	Inspectors of Vaults, 3 at $1,500	4,500 00		
	Inspectors of Complaints, 2 at $1,500	3,000 00		
	Inspector of Complaints	1,200 00		
	Foreman of Street Signs	2,250 00		
	Foreman	1,500 00		
	Foremen, 3 at $1,200	3,600 00		
	Stenographers and Typewriters, 3 at $1,200	3,600 00		
	Stenographer and Typewriter	1,050 00		
	Messengers, 4 at $1,200	4,800 00		
	Messengers, 3 at $1,050	3,150 00		
	Messengers, 2 at $900	1,800 00		
	Automobile Enginemen, 2 at $1,200	2,400 00		
	Attendant	900 00		
			$73,950 00	

Engineering Division.

1431	Salaries and Wages—			
	Assistant Engineer	$4,000 00		
	Assistant Engineer	2,550 00		
	Assistant Engineer	2,100 00		
	Topographical Draftsmen, 2 at $1,500	3,000 00		
	Rodman	1,200 00		
	Messenger	1,500 00		

Salaries and Wages—
Messengers, 2 at $1,200 ..... 2,400 00
Attendant 900 00
17,650 00
91,600 00

1432 General Supplies 1,500 00
1433 Contingencies 4,540 00
1434 Flagging Sidewalks and Fencing Vacant Lots in Front of City Property 1,000 00

Viaducts, Maintenance and Repairs of.

1435 Salaries and Wages..... $4,998 00
1436 General Supplies 3,000 00
7,998 00

Street Signs, Maintenance of.

1437 General Supplies 5,000 00

Maintenance of Highways.

Stone Block Pavement—
1438 Salaries and Wages:
General Foremen $13,001 40
Foremen 25,536 00
Assistant Foremen 20,083 00
Pavers 87,780 00
Rammers 43,624 00
Laborers 89,466 35
Drivers 4,577 50
Plumber's Apprentice 750 00
Flaggers 1,800 00
Toolmen 900 00
Inspectors of Complaints..... 33,828 00
$321,346 25
1439 Hired Teams, Horses and Carts..... 92,950 00
1440 Materials for Repairs and Replacements by Departmental Labor 9,804 00

Boulevards, Roads and Avenues—
1441 Salaries and Wages:
General Foremen $3,216 00
Foremen 16,616 00
Assistant Foremen 10,586 00
Inspectors of Complaints 3,082 00
Wheelwrights 2,347 50
Blacksmiths 1,252 00
Painters 2,504 00
Drivers 2,191 00
Blacksmith's Helpers..... 939 00
Watchmen 2,190 00
Toolmen 782 50
Laborers 26,435 25
Hose Repairers 1,095 00
73,236 25
1442 Hired Teams, Horses and Carts..... 41,112 50
1443 Materials for Repairs and Replacements by Departmental Labor 4,902 00
1444 Repairs and Replacements by Contract or Open Order.. 175,000 00
1445 Repairs and Replacements due to Fire Burns..... 20,000 00
1446 Repairs and Replacements due to Unknown Causes.... 10,000 00
1447 Maintenance of Automobiles, including Equipment, Care and Storage 2,500 00
1448 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 13,526 00
1449 General Supplies 7,000 00
771,377 00

Bureau of Incumbrances.

1450 Salaries and Wages—
Superintendent $3,000 00
Clerk 2,100 00
Clerk 1,200 00
Inspectors, 7 at $1,200..... 8,400 00
Foreman 1,200 00
Keeper 900 00
Foreman 1,095 50
Laborers 1,825 00
$19,720 50
1451 Contingencies 6,000 00
25,720 50

Bureau of Sewers.

Administration.

1452 Salaries, Superintendent, Clerks and Office Force—
Superintendent $5,000 00
Secretary 2,850 00
Bookkeeper 2,550 00
Clerk 1,800 00
Clerk 1,500 00
Clerk 900 00
Clerk 600 00
Permit Clerk 1,500 00
Stenographers and Typewriters, 2 at $1,200 ..... 2,400 00
Messengers, 2 at $1,500..... 3,000 00
Messenger 1,050 00
Superintendent of Maintenance 3,000 00
General Inspector 3,000 00
Superintendent of Construction 3,000 00
Inspectors of Connections, 2 at $1,500.... 3,000 00
Inspectors of Connections, 3 at $1,200.... 3,600 00
Inspector of Masonry..... 2,100 00
Cleaner 720 00
Attendant 1,200 00
$42,770 00

1453 General Supplies 1,000 00
1454 Contingencies 1,500 00

Engineering Division.

1455 Salaries and Wages..... 26,750 00

Maintenance, Including Cleaning and Repairs.

1456 Salaries and Wages—
General Foremen $3,040 00
Foremen 42,871 35
Assistant Foremen 12,060 00
Masons 8,332 80
Bricklayers 9,721 60
Laborers 41,418 00
Sewer Cleaners 71,760 00
Attendant 900 00
190,103 75
1457 Hired Teams, Horses and Carts..... 61,737 50
1458 Materials for Repairs and Replacements by Departmental Labor 1,500 00
1459 Repairs and Replacements by Contract or Open Order..... 25,000 00
1460 General Supplies 10,000 00
1461 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 1,920 00
290,261 25
362,281 25

Bureau of Public Buildings and Offices.

Administration.

1462 Salaries, Superintendent, Clerks and Office Force—
Superintendent $5,000 00
Clerk 2,400 00
Clerk 1,800 00
Clerks, 2 at $1,500..... 3,000 00
Stenographer and Typewriter..... 1,050 00
Mechanical Engineer 1,800 00
Architectural Draftsman 1,500 00
Clerk 900 00
Clerk 720 00
Typewriting Copyist 720 00
Messenger 1,200 00
$20,090 00
1463 General Supplies 500 00
1464 Contingencies 500 00

General Maintenance.

1465 Salaries and Wages, Mechanical Force—
Foreman Plumber, at $5 per day..... $1,825 00
Foreman Cabinet Maker..... 2,190 00
Carpenters, not to exceed $5 per day.... 7,825 00
Cabinet Makers, at $4.50 per day..... 6,750 00
Saw Filer, at $4.50 per day..... 1,408 50
Varnishers, at $4 per day..... 3,600 00
Ship Caulker, at $3.50 per day..... 1,095 50
Plumber, not to exceed $5 per day..... 1,825 00
Steamfitter, not to exceed $5 per day.... 1,825 00
Plumbers's Apprentice, at $2.50 per day.. 912 50
Steamfitter's Helper, at $2.50 per day.... 912 50
Foreman Bricklayer, at $6 per day..... 1,878 00
Wiremen, not to exceed $4.50 per day.... 4,225 50
Tinsmiths, at $4.50 per day..... 2,754 00
Tin Roofer, at $4.50 per day..... 1,350 00
Tar Roofer, at $3.75 per day..... 1,125 00
Electrician 1,642 50
43,144 00

Maintenance of Public Buildings and Offices.

1466 Salaries and Wages, Labor Force—
Departmental Inspector $2,100 00
Inspector 750 00
Janitor 1,800 00
Janitor 1,500 00
Janitors, 8 at $1,200..... 9,600 00
Janitors, 2 at $1,050..... 2,100 00
Janitors, 3 at $900..... 2,700 00
Watchmen, 4 at $900..... 3,600 00
Attendant 1,050 00
Attendant 750 00
Attendants, 9 at $720..... 6,480 00
Custodian 900 00
Assistant Custodian 720 00
Cleaner, Female 600 00
Cleaners, Female, 217 at $360..... 78,120 00
Telephone Operator 1,050 00
Telephone Operators, 2 at $900..... 1,800 00
Telephone Operator 750 00
Telephone Operator 450 00
Storekeeper 1,800 00
Inspector, Public Buildings and Offices.. 2,100 00
Inspector, Public Buildings and Offices.. 1,800 00
Inspectors, Repairs and Supplies, 2 at $1,500 ..... 3,000 00
Inspectors, Repairs and Supplies..... 1,350 00
Inspectors, Repairs and Supplies, 2 at $1,200 ..... 2,400 00
Engineer 2,100 00
Engineers, not to exceed $5 per day..... 37,777 50
Firemen, at $3 per day..... 35,040 00
Oilers, at $3 per day..... 4,380 00
Foremen, at $3 per day..... 2,808 00
Foremen, at $3.50 per day..... 2,184 00

Salaries and Wages, Labor Force—

Foremen, at $4 per day	2,496 00	
Foremen, at $5 per day	7,800 00	
Assistant Foremen, at $3 per day	2,808 00	
Assistant Foremen, at $3.50 per day	1,092 00	
Assistant Foremen, at $4 per day	1,248 00	
Elevator Men, at $2.75 per day	26,598 00	
Cleaners	1,248 00	
Laborers, at $3 per day	936 00	
Laborers, at $2.50 per day	110,412 50	
		368,198 00
1467 General Supplies		30,200 00
1468 Materials for Repairs and Replacements by Departtmental Labor		5,000 00
1469 Repairs and Replacements by Contract or Open Order		96,200 00
1470 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		1,200 00
1471 Maintenance of Automobiles, including Equipment, Care and Storage		2,500 00
1472 Fuel		55,000 00
1473 Hired Teams, Horses and Carts		28,476 00
1474 Telephone Service		7,000 00
1475 Contingencies		4,400 00

MAINTENANCE OF PUBLIC BATHS AND COMFORT STATIONS.

1476 Salaries and Wages—

Superintendent's Office:		
Superintendent	$2,550 00	
Inspectors, Public Baths and Comfort Stations, 2 at $1,500	3,000 00	
Inspector, Public Baths and Comfort Stations	1,200 00	
Foreman	1,733 75	
		8,483 75

Interior Baths.

1477 Rivington Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendents, Male, 2 at $1,200	2,400 00	
Attendants, Male, 7 at $900	6,300 00	
Attendants, Female, 8 at $720	5,760 00	
Firemen, 4 at $3 per day	4,380 00	
		$22,125 00
1478 Allen Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 8 at $900	7,200 00	
Attendants, Female, 8 at $720	5,760 00	
Firemen, 3 at $3 per day	3,285 00	
		20,580 00
1479 East Eleventh Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
1480 East Twenty-third Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 8 at $900	7,200 00	
Attendants, Female, 8 at $720	5,760 00	
Firemen, 3 at $3 per day	3,285 00	
		20,580 00
1481 West Forty-fifth Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 5 at $900	4,500 00	
Attendants, Female, 6 at $720	4,320 00	
Laborer, 1 at $3 per day	1,095 00	
Firemen, 3 at $3 per day	3,285 00	
		17,535 00
1482 West Sixtieth Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,200	1,200 00	
Attendants, Male, 8 at $900	7,200 00	
Attendants, Female, 8 at $720	5,760 00	
Firemen, 4 at $3 per day	4,380 00	
		21,825 00
1483 East Seventy-sixth Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
1484 East One Hundred and Ninth Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Cleaner	365 00	
Firemen, 3 at $3 per day	3,285 00	
		17,705 00
1485 Oliver and Cherry Streets—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
1486 Rutgers Place—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
1487 East Fifty-fourth Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
1488 Carmine Street—		
Engineers, 2 at $4.50 per day	$3,285 00	
Attendant, Male, 1 at $1,050	1,050 00	
Attendants, Male, 6 at $900	5,400 00	
Attendants, Female, 6 at $720	4,320 00	
Firemen, 3 at $3 per day	3,285 00	
		17,340 00
		224,390 00

Public Comfort Stations.

1489 Salaries and Wages—		
Attendants, Male, 20 at $900	$18,000 00	
Attendants, Female, 25 at $720	18,000 00	
Cleaner	730 00	
Assistant Foreman, at $3 per day	1,095 00	
Laborers:		
4 at $2.50 per day	3,650 00	
1 at $2 per day	730 00	
		42,205 00

FREE FLOATING BATHS.

1490 Salaries and Wages—		
Attendants, Male, 14 at $900	$12,600 00	
Assistant Foreman, at $3 per day	1,095 00	
Summer Force:		
Attendants, Male, 34 at $75 per month for 3 months	7,650 00	
Attendants, Female, 24 at $60 per month for 3 months	4,320 00	
		25,665 00
1491 General Supplies		5,000 00
1492 Materials for Repairs and Replacements by Departmental Labor		2,000 00
1493 Repairs and Replacements by Contract or Open Order		25,000 00
1494 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		4,500 00
1495 Fuel		52,000 00
1496 Contingencies		1,000 00
		1,052,651 75

BUREAU OF BUILDINGS.

Administration.

1497 Salaries, Superintendents, Clerks and Office Force—		
Superintendent	$5,000 00	
Assistant Superintendent	4,000 00	
Secretary to Superintendent	2,500 00	
Chief Clerk	3,000 00	
Assistant Chief Clerk	2,000 00	
Clerk	3,000 00	
Clerk	2,400 00	
Clerk	2,350 00	
Clerks, 4 at $1,800	7,200 00	
Clerks, 7 at $1,500	10,500 00	
Clerks, 2 at $1,350	2,700 00	
Clerks, 10 at $1,200	12,000 00	
Clerks, 2 at $1,050	2,100 00	
Clerks, 7 at $900	6,300 00	
Stenographers and Typewriters, 3 at $1,500	4,500 00	
Stenographer and Typewriter	1,200 00	
Stenographers and Typewriters, 2 at $1,050	2,100 00	
Cleaners, 5 at $400	2,000 00	
Telephone Operator	900 00	
Watchmen, 3 at $600	1,800 00	
Automobile Engineman	1,200 00	
		$78,750 00

Field and Inspection Force.

1498 Salaries and Wages, Chief Inspector, Inspectors, Engineers, etc.—		
Chief Inspector of Buildings	$4,000 00	
Confidential Examiner	1,200 00	
Messenger	1,500 00	
Messengers, 8 at $1,200	9,600 00	
Messengers, 7 at $1,050	7,350 00	
Driver	1,000 00	
Assistant Engineer	4,000 00	
Assistant Engineers, 2 at $2,550	5,100 00	
Assistant Engineer	2,400 00	
Inspectors of Masonry and Carpentry, 2 at $2,400	4,800 00	
Inspectors of Masonry and Carpentry, 54 at $1,500	81,000 00	
Inspector of Masonry and Carpentry	1,350 00	
Inspectors of Masonry and Carpentry, 9 at $1,200	10,800 00	
Inspectors of Iron and Steel Construction, 7 at $1,500	10,500 00	
Inspectors of Elevators, 11 at $1,500	16,500 00	
Inspector of Elevators	1,350 00	
Inspectors of Elevators, 5 at $1,200	6,000 00	

	Salaries and Wages, Chief Inspector, Inspectors, Engineers, etc.—			
	Inspector of Plumbing	2,550 00		
	Inspectors of Plumbing, 17 at $1,500	25,500 00		
	Inspectors of Plumbing, 3 at $1,350	4,050 00		
	Inspectors of Plumbing, 4 at $1,200	4,800 00		
			205,350 00	
1499	General Supplies		800 00	
1500	Maintenance of Automobiles, including Equipment, Care and Storage		2,500 00	
1501	Forage, Shoeing and Boarding Horses		500 00	
1502	Contingencies		3,120 00	
				291,020 00
				2,735,158 50

PRESIDENT, BOROUGH OF THE BRONX.

GENERAL ADMINISTRATION.

1503	Salaries—			
	President	$7,500 00		
	Commissioner of Public Works	5,000 00		
	Assistant Commissioner of Public Works	4,000 00		
	Secretary	4,000 00		
	Chief Clerk	3,500 00		
	General Bookkeeper	3,500 00		
	Secretary to Commissioner of Public Works	3,000 00		
	Clerk to the President	2,400 00		
	Clerks, 2 at $2,400	4,800 00		
	Clerks, 3 at $1,950	5,850 00		
	Clerks, 3 at $1,800	5,400 00		
	Clerk	1,650 00		
	Clerk	2,100 00		
	Clerk	900 00		
	Stenographer and Typewriter	1,200 00		
	Stenographer and Typewriter	1,050 00		
	Stenographer and Typewriter	900 00		
	Stenographer to the President	1,500 00		
	Messenger	1,350 00		
			$59,600 00	

ENGINEERING DIVISION.

1504	Salaries—			
	Chief Engineer	$7,500 00		
	Clerk	2,250 00		
	Clerk	1,650 00		
	Clerk	1,050 00		
	Typewriter	1,200 00		
	Stenographer and Typewriter	1,200 00		
			14,850 00	
1505	Contingencies		500 00	
				$74,950 00

BUREAU OF HIGHWAYS.

Administration.

1506	Salaries—			
	Superintendent of Highways	$4,000 00		
	Clerk	2,400 00		
	Clerk	2,100 00		
	Clerks, 2 at $1,800	3,600 00		
	Clerks, 2 at $1,650	3,300 00		
	Clerks, 4 at $1,500	6,000 00		
	Clerk	1,350 00		
	Clerks, 2 at $1,200	2,400 00		
	Clerks, 3 at $900	2,700 00		
	General Inspector	2,400 00		
	General Inspectors and Foremen, 2	4,200 00		
	Messenger	1,200 00		
	Attendant	1,500 00		
	Attendant	1,200 00		
	Attendants, 2 at $900	1,800 00		
	Permit Clerk	1,950 00		
	Cashier	1,800 00		
	Inspectors Regulating, Grading and Paving, 2	3,000 00		
	Typewriting Copyist	1,050 00		
			$47,950 00	

Maintenance of Highways.

1507	Salaries—			
	Rodman	$1,350 00		
	Rodman	960 00		
	Leveler	1,500 00		
	Mechanical Draftsman	1,500 00		
	Foreman	1,800 00		
	Foreman	1,650 00		
	Foreman	1,650 00		
	Foreman of Bridge Mechanics	1,650 00		
	Foremen, 2 at $1,500	3,000 00		
	Messengers, 5 at $1,350	6,750 00		
	Attendants, 2 at $1,200	2,400 00		
	Attendants, 3 at $1,050	3,150 00		
	Attendant	900 00		
	Clerk	1,050 00		
			27,660 00	
1508	Wages—			
	Foreman Hostler	$1,000 00		
	Foremen	42,000 00		
	Assistant Foremen	20,000 00		
	Carpenters, not to exceed $4.50 per day	6,875 00		
	Pavers, not to exceed $5 per day	20,000 00		
	Rammers, not to exceed $4 per day	14,000 00		
	Wheelwright, not to exceed $4 per day	1,000 00		
	Painters	8,500 00		
	Engineers, not to exceed $4.50 per day	9,000 00		
	Wages—			
	Flaggers, not to exceed $4.50 per day	4,500 00		
	Machinists, not to exceed $4.50 per day	4,500 00		
	Mechanics' Helpers	1,750 00		
	Mechanics' Helper	750 00		
	Blacksmith, not to exceed $4.50 per day	2,000 00		
	Blacksmiths' Helper, not to exceed $3 per day	1,500 00		
	Laborers	158,208 00		
	Tinsmith, not to exceed $4.50 per day	1,125 00		
	Drivers	20,250 00		
	Stokers, not to exceed $3 per day	1,500 00		
	Auto Enginemen	3,000 00		
	Stableman	1,375 00		
	Plasterers, not to exceed $5.50 per day	2,750 00		
	Inspectors, Regulating, Grading and Paving	15,025 00		
	Saw Filer	1,625 00		
	Toolman	1,310 00		
	Fireman, not to exceed $3 per day	750 00		
	Hostlers	14,250 00		
	Attendant	1,250 00		
			359,793 00	
1509	Hired Teams, Horses and Carts		91,367 00	
1510	General Supplies		4,181 40	
1511	Materials for Repairs and Replacements by Departmental Labor		87,200 00	
1512	Repairs and Replacements by Contract or Open Order		5,000 00	
1513	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		2,900 00	
1514	Maintenance of Automobiles, including Equipment, Care and Storage		1,500 00	
1515	Forage, Shoeing and Boarding Horses		6,000 00	
1516	Fuel		1,925 00	
1517	Contingencies		3,000 00	

Removing Incumbrances.

1518	Salaries and Wages—			
	Inspectors, 3 at $1,000		3,000 00	

Engineering Division.

1519	Salaries and Wages		46,200 00	
1520	General Supplies		700 00	
1521	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		575 00	
1522	Contingencies		3,013 00	
				691,964 40

BUREAU OF SEWERS.

Administration.

1523	Salaries—			
	Engineer in Charge of Sewers (in part)	$600 00		
	Superintendent of Sewers	4,000 00		
	Principal Assistant Engineer of Sewers (in part)	600 00		
	Stenographer and Typewriter	1,500 00		
	Stenographer and Typewriter	1,200 00		
	Clerk	2,250 00		
	Clerk	1,650 00		
	Clerk	1,350 00		
	Clerk	600 00		
	Inspectors of Sewer Connections, 4 at $1,500	6,000 00		
	Inspectors of Sewers, 2 at $1,500	3,000 00		
	Inspector of Masonry	1,500 00		
	Messenger	1,200 00		
			$25,450 00	
1524	Contingencies		3,000 00	

Maintenance, Including Cleaning and Repairs.

1525	Salaries—			
	Engineer in Charge of Sewers (in part)	$900 00		
	Foremen, 2 at $1,800	3,600 00		
	Foreman	1,650 00		
	Foreman	1,500 00		
	Assistant Engineer	1,650 00		
	Assistant Engineer (in part)	200 00		
	Attendant	1,200 00		
	Attendants, 3 at $1,050	3,150 00		
	Messengers, 2 at $1,350	2,700 00		
	Foreman	1,200 00		
	Topographical Draftsmen, 2 at $1,500	3,000 00		
			20,750 00	
1526	Wages—			
	Foremen	$12,100 00		
	Assistant Foremen	8,662 50		
	Laborers	27,390 50		
	Bricklayer, not to exceed $5.60 per day	1,540 00		
	Painter	1,200 00		
	Blacksmith, not to exceed $4.50 per day	1,100 00		
	Blacksmith's Helper, not to exceed $3 per day	825 00		
	Carpenter, not to exceed $4.50 per day	1,200 00		
	Stableman	1,650 00		
	Hostlers	2,062 00		
	Drivers	7,700 00		
	Sewer Cleaners	20,500 00		
			85,930 00	
1527	Hired Teams, Horses and Carts		23,782 00	
1528	General Supplies		1,500 00	
1529	Materials for Repairs and Replacements by Departmental Labor		3,000 00	

1530	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		2,000 00	
1531	Forage, Shoeing and Boarding Horses		2,500 00	
	Boring Examinations.			
1532	Salaries and Wages—			
	Principal Assistant Engineer of Sewers (in part)	$800 00		
	Foreman of Sounders	1,650 00		
	Foremen, not to exceed $4 per day	3,648 00		
	Laborers, at $2.50 per day	14,400 00		
			20,498 00	
	Engineering Division.			
	Preliminary Surveys, Estimates, etc.—			
1533	Salaries and Wages	$31,000 00		
1534	General Supplies	1,000 00		
			32,000 00	
				220,410 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

Administration.

1535	Salaries—			
	Superintendent	$4,000 00		
	Foreman of Mechanics	1,500 00		
	Foreman of Laborers	1,500 00		
	Lineman	1,200 00		
	Telephone Switchboard Operators, 2 at $900	1,800 00		
	Clerk	1,350 00		
	Attendant	1,050 00		
			$12,400 00	
	Maintenance.			
1536	Salaries and Wages, Mechanical Force—			
	Painters, not to exceed $4.50 per day	$2,817 00		
	Plasterers, not to exceed $5.50 per day	1,721 50		
	Carpenters, not to exceed $4.50 per day	2,817 00		
	Tinsmith, not to exceed $4.50 per day	1,408 50		
	Machinist, not to exceed $4.50 per day	1,408 50		
	Mechanic's Helper, not to exceed $3.50 per day	1,095 50		
	Housesmith, not to exceed $4 per day	1,248 00		
	Bricklayer, not to exceed $5.60 per day	1,752 00		
	Engineers, not to exceed $4.50 per day	3,276 00		
	Firemen, not to exceed $3 per day	2,000 60		
	Stoker, not to exceed $3 per day	1,072 00		
			20,616 60	
1537	Salaries and Wages, Labor Force—			
	Assistant Foremen of Laborers, not to exceed $3.50 per day	$2,548 00		
	Female Cleaners	7,300 00		
	Laborers	19,444 00		
	Watchmen	3,640 00		
			32,932 00	
1538	General Supplies		3,054 00	
1539	Repairs and Replacements by Contract or Open Order.		1,335 00	
1540	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		100 00	
1541	Purchase of Furniture and Fittings		1,500 00	
1542	Forage, Shoeing and Boarding Horses		200 00	
1543	Fuel		5,408 25	
1544	Telephone Service		1,800 00	
1545	Contingencies		500 00	
	Public Baths.			
1546	Salaries and Wages, Mechanical Force—			
	Stationary Engineer, at $4.50 per day	$3,276 00		
	Stokers, at $3 per day	2,184 00		
	Fireman, not to exceed $3 per day	1,092 00		
			6,552 00	
1547	Salaries and Wages, Labor Force—			
	Male Laborers, not to exceed $2.50 per day	$1,820 00		
	Male Laborers, not to exceed $3 per day	1,092 00		
	Male Bath Attendants, not to exceed $2.50 per day	3,640 00		
	Female Bath Attendants, not to exceed $2 per day	3,640 00		
	Female Cleaners, not to exceed $1.50 per day	1,092 00		
			11,284 00	
1548	Contingencies		300 00	
1549	Fuel		2,200 00	
				100,181 85

BUREAU OF BUILDINGS.

Administration.

1550	Salaries, Superintendent, Clerks and Office Force—			
	Superintendent	$5,000 00		
	Assistant Superintendent	4,000 00		
	Secretary to Superintendent	2,500 00		
	Chief Clerk	2,700 00		
	Plan Clerk	1,800 00		
	Clerks, 2 at $2,100	4,200 00		
	Clerks, 5 at $1,650	8,250 00		
	Clerks, 3 at $1,350	4,050 00		
	Clerk	1,200 00		
	Clerk	1,050 00		
	Typewriter	1,200 00		
	Stenographer and Typewriter	1,500 00		
	Messengers, 2 at $1,350	2,700 00		
	Messenger	1,200 00		
	Messenger	1,050 00		
	Drivers, 2	2,100 00		
			$44,500 00	

Field and Inspection.

1551	Salaries, Chief Inspector, Inspectors, etc.—			
	Chief Inspector	$3,000 00		
	Assistant Engineer	2,400 00		
	Inspector	2,100 00		
	Inspector	1,650 00		
	Inspectors, 36 at $1,500	54,000 00		
	Inspectors, 17 at $1,350	22,950 00		
	Inspectors, 2 at $1,200	2,400 00		
	Inspectors of Elevators, 2	2,700 00		
			91,200 00	
1552	Contingencies		1,885 00	
1553	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		150 00	
1554	Forage, Shoeing and Boarding Horses		225 00	
			137,960 00	
				$1,225,466 25

PRESIDENT, BOROUGH OF BROOKLYN.

GENERAL ADMINISTRATION.

1555	Salaries and Wages—			
	President of the Borough	$7,500 00		
	Commissioner of Public Works	6,000 00		
	Assistant Commissioner of Public Works	5,000 00		
	Consulting Engineer	8,000 00		
	Secretary of the Borough	4,000 00		
	Secretary	4,000 00		
	Secretary to Commissioner	3,000 00		
	Chief Clerk	3,000 00		
	Bookkeeper	3,000 00		
	Bookkeeper	1,800 00		
	Executive Clerk	2,400 00		
	Confidential Inspector	2,100 00		
	Stenographers, 3 at $2,100	6,300 00		
	Stenographers, 5 at $1,500	7,500 00		
	Stenographers, 3 at $1,200	3,600 00		
	Clerks, 2 at $2,100	4,200 00		
	Clerks, 2 at $1,800	3,600 00		
	Clerk	1,500 00		
	Clerks, 2 at $1,050	2,100 00		
	Clerks, 3 at $750	2,250 00		
	Automobile Enginemen, 2 at $1,200	2,400 00		
	Messenger	1,500 00		
	Messenger	1,050 00		
	Clerk	540 00		
			$86,340 00	
1556	Contingencies		2,500 00	
				$88,840 00

DIVISION OF SUBSTRUCTURES.

1557	Salaries and Wages—			
	Assistant Engineer	$4,000 00		
	Draftsmen, 3 at $1,800	5,400 00		
	Draftsman	1,650 00		
	Draftsmen, 2 at $1,500	3,000 00		
	Draftsman	1,350 00		
	Transitman	1,350 00		
	Rodmen, 2 at $1,200	2,400 00		
	Axeman	900 00		
	Stenographer	1,200 00		
	Automobile Engineman	1,200 00		
			$22,450 00	
1558	Contingencies		500 00	
				22,950 00

BUREAU OF HIGHWAYS.

Administration.

1559	Salaries and Wages—			
	Superintendent	$5,000 00		
	Chief Clerk	3,000 00		
	Supervisor of Complaints	2,550 00		
	Clerks, 3 at $2,100	6,300 00		
	Clerks, 2 at $1,500	3,000 00		
	Clerks, 2 at $900	1,800 00		
	Cashier	1,200 00		
	Stenographer	1,200 00		
	Stenographers and Typewriters, 2 at $1,050	2,100 00		
	Stenographer	750 00		
	Office Boy	540 00		
			$27,440 00	

Engineering Division.

1560	Salaries and Wages		83,150 00	

Maintenance of Highways.

1561	Salaries and Wages—			
	General Foremen	$6,570 00		
	Foremen	49,500 00		
	Asphalt Foremen	10,800 00		
	Inspectors	19,200 00		
	Automobile Enginemen	3,900 00		
	Drivers	11,700 00		
	Pavers	70,000 00		
	Rammers	28,000 00		
	Flaggers	13,500 00		
	Bricklayers	1,400 00		
	Stonecutters	1,125 00		
	Carpenters	1,125 00		
	Stokers	3,285 00		
	Stationary Engineers	1,642 50		

Salaries and Wages—
Steam Roller Engineers..... 14,850 00
Asphalt Workers 51,500 00
Laborers 192,461 24
——————$480,558 74

1562 Hired Teams, Horses and Carts..... 148,721 80
1563 General Supplies 4,000 00
1564 Materials for Repairs and Replacements by Departmental Labor 188,543 54
1565 Repairs and Replacements by Contract or Open Order 7,000 00
1566 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 17,000 00
1567 Purchase of Furniture and Fittings..... 500 00
1568 Maintenance of Automobiles, including Equipment, Care and Storage..... 3,000 00
1569 Forage, Shoeing and Boarding Horses..... 9,600 00
1570 Fuel 7,750 00
1571 Contingencies 7,560 00
——————— 874,834 08
——————— 984,824 08

DIVISION OF INCUMBRANCES.

Administration.

1572 Salaries and Wages—
Superintendent of Incumbrances..... $2,550 00
Inspector 1,500 00
Inspectors, 6 at $1,200..... 7,200 00
——————— 11,250 00

Maintenance.

1573 Salaries and Wages—
Foreman, at $4 per day..... $1,248 00
Laborers, at $2.50 per day..... 6,060 00
——————— 7,308 00
1574 Hired Teams, Horses and Carts..... 1,500 00
1575 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 1,500 00
1576 Contingencies 1,000 00
——————— 22,558 00

BUREAU OF SEWERS.

Administration.

1577 Salaries and Wages—
Superintendent $5,000 00
Assistant Superintendent, Maintenance and Repairs 2,250 00
Clerk 2,550 00
Clerk 2,100 00
Clerks, 2 at $1,800..... 3,600 00
Clerk 1,650 00
Clerk, with Special Knowledge of Handwriting 1,500 00
Clerk, with Knowledge of Statistics..... 1,650 00
Clerk 1,050 00
Stenographer and Typewriter..... 1,200 00
Typewriter Copyist 1,200 00
Foreman, Sewer Repair Yard 1,800 00
Inspectors of Sewers and Basins, 9 at $1,200 ..... 10,800 00
Inspectors of Sewer Connections, 9 at $1,200 ..... 10,800 00
Messenger 1,050 00
——————— $48,200 00

Maintenance, Including Cleaning and Repairs.

1578 Salaries and Wages—
Foremen $29,941 00
Engineer of Purification Works 1,800 00
Stationary Engineers of Electric Pumping Station 4,927 50
Stationary Engineers 21,352 50
Inspectors of Sewer Construction 2,504 00
Inspectors of Sewer Connections 1,200 00
Bricklayers 3,505 60
Stone Masons 1,408 50
Masons 1,252 00
Masons' Helpers 782 50
Watchmen 1,800 00
Stokers 16,425 00
Licensed Firemen 1,095 00
Drivers 9,924 00
Sewer Cleaners 80,072 50
Laborers 57,369 19
——————$235,359 29
1579 General Supplies 17,000 00
1580 Materials for Repairs and Replacements by Departmental Labor 8,000 00
1581 Repairs and Replacements by Contract or Open Order 15,000 00
1582 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 5,000 00
1583 Purchase of Furniture and Fittings..... 100 00
1584 Maintenance of Automobiles, including Equipment, Care and Storage..... 3,000 00
1585 Purchase of Horses..... 900 00
1586 Forage, Shoeing and Boarding Horses..... 10,000 00
1587 Hired Teams, Horses and Carts..... 55,000 00
1588 Fuel 12,000 00
1589 Contingencies 4,000 00
1590 Special Contract Obligations..... 25,000 00
——————— $390,359 29
——————— 438,559 29

Engineering Technical Staff.

1591 Salaries and Wages..... 99,600 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

Administration.

1592 Salaries and Wages—
Superintendent $5,000 00
Assistant Engineer..... 4,000 00
Assistant Engineer..... 3,000 00
Superintendent of Public Baths and Comfort Stations..... 2,550 00
Chief Clerk 3,000 00
Clerk 1,650 00
Clerks, 3 at $1,500..... 4,500 00
Clerk 1,200 00
Clerk 1,050 00
Draftsman 1,800 00
Inspector of Construction and Repairs.... 1,800 00
Inspector of Masonry..... 1,500 00
Inspector of Fuel..... 1,500 00
Inspector of Public Buildings..... 1,500 00
Inspector of Plumbing..... 1,500 00
Inspector of Supplies..... 1,500 00
Stenographer 1,500 00
Stenographer 1,200 00
Typewriter Copyist..... 1,200 00
Typewriter Copyist..... 1,050 00
Messenger 1,050 00
Telephone Operators, 3 at $900..... 2,700 00
——————— $45,750 00

Maintenance.

1593 Salaries and Wages—
Attendants, 2 at $1,200..... $2,400 00
Attendants, 29 at $900..... 26,100 00
Attendants, 40 at $750..... 30,000 00
Attendants, 22 at $600..... 13,200 00
Janitors, 2 at $1,800..... 3,600 00
Janitor 1,500 00
Janitors, 8 at $900..... 7,200 00
Janitor 750 00
Janitresses, 2 at $750..... 1,500 00
Foreman Painter..... 1,200 00
Carpenters, 3 at $1,050..... 3,150 00
Elevator Conductors, 11 at $900..... 9,900 00
Matron 1,050 00
Varnisher 1,000 00
Plasterer 1,000 00
Watchmen, 11 at $900..... 9,900 00
Drivers, 2 at $900..... 1,800 00
Drivers, 2 at $750..... 1,500 00
Laborers, 3 at $900..... 2,700 00
Laborers, 68 at $750..... 51,000 00
Cleaners, 92 at $360..... 33,120 00
Foreman Bricklayer, not to exceed $5.60 per day..... 1,752 80
Stationary Engineers, not to exceed $4.50 per day 37,777 50
Stationary Engineers and Firemen (temporary) 1,386 00
Housesmith, not to exceed $4.50 per day.. 1,408 50
Plumber, not to exceed $4.50 per day..... 1,408 50
Pipefitter 1,565 00
Decorator, not to exceed $4.50 per day.... 1,408 50
Foremen Laborers, not to exceed $4 per day 2,504 00
Assistant Foreman Laborer..... 939 00
Firemen, not to exceed $3 per day..... 24,090 00
Oilers, not to exceed $3 per day..... 1,095 00
Masons' Helper..... 782 50
——————— 279,687 30
1594 General Supplies..... 41,352 00
1595 Materials for Repairs and Replacements by Departmental Labor 3,750 00
1596 Repairs and Replacements by Contract or Open Order.. 70,000 00
1597 Forage, Shoeing and Boarding Horses..... 475 00
1598 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 1,000 00
1599 Fuel 45,200 00
1600 Telephone Service..... 10,000 00
1601 Contingencies 1,000 00
——————— 498,214 30

BUREAU OF BUILDINGS.

Administration.

1602 Salaries and Wages—
Superintendent $5,000 00
Assistant Superintendent..... 4,000 00
Chief Clerk..... 3,500 00
Secretary to Superintendent..... 3,000 00
Statistician 1,500 00
Plan Examiner 2,400 00
Plan Clerk..... 1,650 00
Assistant Engineers, 2 at $2,550..... 5,100 00
Clerk 1,800 00
Clerk 1,650 00
Clerks, 5 at $1,350..... 6,750 00

Salaries and Wages—

Clerks, 6 at $1,050	6,300 00	
Clerk	750 00	
Clerk	540 00	
Stenographer and Typewriter	1,200 00	
Typewriting Copyists, 2 at $1,200	2,400 00	
Stenographer and Typewriter	1,050 00	
Typewriting Copyist	900 00	
Messengers, 2 at $1,050	2,100 00	
Process Servers, 4 at $1,050	4,200 00	
		$55,790 00

Inspection and Field Force.

1603	Salaries and Wages—		
	Chief Inspectors, 2 at $2,500	$5,000 00	
	Chief Inspector of Plumbing	1,800 00	
	Inspector of Plumbing	2,400 00	
	Inspector of Plumbing	1,800 00	
	Inspector of Plumbing	1,650 00	
	Inspectors of Plumbing, 7 at $1,500	10,500 00	
	Inspectors of Plumbing, 5 at $1,350	6,750 00	
	Inspectors of Plumbing, 14 at $1,200	16,800 00	
	Inspectors of Carpentry and Masonry, 5 at $2,400	12,000 00	
	Inspectors of Carpentry and Masonry, 7 at $1,800	12,600 00	
	Inspectors of Carpentry and Masonry, 24 at $1,500	36,000 00	
	Inspectors of Carpentry and Masonry, 11 at $1,350	14,850 00	
	Inspectors of Carpentry and Masonry, 16 at $1,200	19,200 00	
	Inspector of Elevators	2,400 00	
	Inspectors of Elevators, 2 at $1,500	3,000 00	
	Inspectors of Elevators, 5 at $1,200	6,000 00	
	Inspector of Iron and Steel	1,650 00	
	Inspector of Iron and Steel	1,200 00	
	Auto Engineman	1,200 00	
			156,800 00
1604	Contingencies		5,000 00
1605	Maintenance of Automobiles, including Equipment, Care and Storage		1,000 00
			218,590 00
			2,374,135 67

PRESIDENT, BOROUGH OF QUEENS.

General Administration.

1606	Salaries—		
	President of Borough	$5,000 00	
	Secretary of Borough	4,000 00	
	Commissioner of Public Works	4,000 00	
	Assistant Commissioner of Public Works	3,000 00	
	Secretary to Commissioner of Public Works	1,800 00	
	Clerk to President	3,000 00	
	Stenographer to President	1,500 00	
	Confidential Inspector	1,800 00	
	Chief Clerk	2,500 00	
	Clerk	2,100 00	
	Clerks, 3 at $1,800	5,400 00	
	Clerk and Bookkeeper	1,950 00	
	Bookkeeper	1,800 00	
	Clerks, 2 at $1,500	3,000 00	
	Clerk	1,200 00	
	Stenographer and Book Typewriter (Male)	1,200 00	
	Clerks, 2 at $1,050	2,100 00	
	Clerk	900 00	
			$46,250 00
1607	Contingencies		3,000 00
			$49,250 00

Bureau of Highways.

Administration.

1608	Salaries—		
	Superintendent	$3,000 00	
	Chief Clerk	2,500 00	
	Cashier	2,100 00	
	Clerk	1,050 00	
	Clerk	1,800 00	
	Clerks, 3 at $1,050 each	3,150 00	
	Junior Clerk	540 00	
	Stenographer and Typewriter	1,500 00	
	Typewriting Copyists, 2 at $1,050 each	2,100 00	
	Typewriting Copyist	900 00	
	Inspectors of Complaints, 5 at 1,200 each	6,000 00	
	Messenger	900 00	
	Automobile Engineman, at $4 per diem	1,200 00	
			$26,740 00

Engineering and Inspection Force.

1609	Salaries and Wages	12,000 00

Maintenance of Highways.

1610	Salaries and Wages—		
	Foremen	$57,755 00	
	Assistant Foremen	52,477 00	
	Dump Boardmen	4,696 00	
	Mechanics' Helpers	2,817 00	
	Carpenters	880 00	
	Ship Carpenters	2,818 00	
	Blacksmiths	939 00	
	Blacksmith Helpers	704 00	
	Steam Roller Engineers	3,170 00	
	Stone Masons	1,056 00	
	Flaggers	704 00	
	Stripers	822 00	
	Painters	940 00	
	Pavers	15,540 00	
	Rammers	8,000 00	
	Bridge Tenders	1,174 00	
	Drivers	10,150 00	
	Messengers	1,200 00	
	Attendants	1,404 00	
	Gardeners	1,290 00	
	Sounders	1,290 00	
	Laborers	247,604 00	
			$417,430 00
1611	Hired Teams, Horses and Carts		90,760 00
1612	Materials for Repairs and Replacements by Departmental Labor		50,000 00
1613	Repairs and Replacements by Contract or Open Order		7,500 00
1614	General Supplies		3,000 00
1615	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		3,500 00
1616	Maintenance of Automobiles, including Equipment, Care and Storage		600 00
1617	Fuel		600 00
1618	Contingencies		9,000 00
			582,390 00
			621,130 00

Bureau of Sewers.

Administration.

1619	Salaries—		
	Superintendent	$3,000 00	
	Chief Clerk	2,500 00	
	Cashier	1,500 00	
	Clerks, 3 at $1,500 each	4,500 00	
			$11,500 00

Engineering Division.

	Salaries and Wages—		
1620	Chief Engineer, Assistant Engineer and Draftsman	$4,800 00	
1621	Preliminary Surveys	9,425 00	
			14,225 00
1622	For Preparation of Drainage and Sewerage District Plans:		
	Assistant Engineer	$2,700 00	
	Assistant Engineer	2,250 00	
	Assistant Engineer	1,950 00	
	Draftsman	1,800 00	
	Draftsmen, 2 at $1,650 each	3,300 00	
	Draftsman	1,500 00	
	Draftsmen, 2 at $1,350 each	2,700 00	
	Draftsman	1,200 00	
			17,400 00

Maintenance, Including Cleaning and Repairs.

1623	Salaries and Wages—		
	Foremen	$27,030 00	
	Assistant Foremen	3,846 00	
	Mechanics' Helpers	980 00	
	Bricklayers	2,946 00	
	Masons' Helpers	840 00	
	Drivers	840 00	
	Sewer Cleaners	13,147 00	
	Sounders	1,216 00	
	Laborers	35,146 00	
			85,991 00
1624	Hired Teams, Horses and Carts, including Horse and Carriage Hire		20,880 00
1625	Materials for Repairs and Replacements by Departmental Labor		1,500 00
1626	Repairs and Replacements by Contract or Open Order		500 00
1627	General Supplies		4,000 00
1628	Contingencies		3,000 00
			114,271 00

Newtown Disposal Works.

1629	Salaries and Wages—		
	Engineers, at $4.50 per diem	$4,927 50	
	Stokers, at $3 per diem	3,285 00	
	Oiler, at $3 per diem	936 00	
	Laborers, at $2.50 per diem	3,900 00	
			13,048 50
1630	General Supplies		1,500 00
1631	Repairs and Replacements by Contract or Open Order.		500 00
1632	Fuel		2,400 00

Jamaica Disposal Works.

1633	Salaries and Wages—		
	Engineers, at $4.50 per diem	$4,927 50	
	Stokers, at $3 per diem	3,285 00	
	Oiler, at $3 per diem	936 00	
	Machinists' Helper, at $3.50 per diem	1,092 00	
	Assistant Foreman, at $3.50 per diem	1,092 00	
	Laborers, at $2.50 per diem	3,900 00	
			15,232 50
1634	General Supplies		2,000 00
1635	Materials for Repairs and Replacements by Departmental Labor		350 00

1636	Repairs and Replacements by Contract or Open Order..	100 00	
1637	Fuel	1,250 00	
	Far Rockaway Disposal Works.		
1638	Salaries and Wages—		
	Engineers, at $4.50 per diem	$4,927 50	
	Stokers, at $3 per diem	3,285 00	
	Gas Maker, at $3 per diem	936 00	
	Oilers, at $3 per diem	1,872 00	
	Sewer Cleaner, at $2.50 per diem	780 00	
	Laborers, at $2.50 per diem	780 00	
		12,580 50	
1639	General Supplies	2,500 00	
1640	Materials for Repairs and Replacements by Departmental Labor	200 00	
1641	Repairs and Replacements by Contract or Open Order..	2,500 00	
1642	Fuel	3,700 00	
			216,857 50

BUREAU OF STREET CLEANING.

Administration.

1643	Salaries—		
	Superintendent	$3,000 00	
	Clerk	1,500 00	
	Clerks, 3 at $1,050	3,150 00	
	Stenographer and Typewriter	1,050 00	
	Automobile Engineman, at $4 per diem	1,252 00	
			$9,952 00

Sweeping, Carting and Final Disposition.

1644	Salaries and Wages—		
	Deputy Superintendent	$3,600 00	
	Section Foremen, 2 at $1,500 each	3,000 00	
	Section Foremen, 6 at $1,200 each	7,200 00	
	Assistant Foremen, 5 at $900 each	4,500 00	
	Assistant Foremen, 4 at $3.25 per diem	4,056 00	
	Foremen of Laborers, at $4 per diem	5,008 00	
	Mechanics' Helpers, at $3 per diem	1,878 00	
	Driver	939 00	
	Stoker, at $3 per diem	1,878 00	
	Coal Passers, at $2.50 per diem	3,130 00	
	Dump Boardmen, at $3 per diem	9,390 00	
	Laborers, at $2.50 per diem	45,950 00	
	Sweepers, at $2.50 per diem	39,125 00	
			129,654 00
1645	Hired Teams, Horses and Carts		144,149 00
1646	Special Contract Obligations		10,000 00
1647	General Supplies		4,000 00
1648	Materials for Repairs and Replacements by Departmental Labor		1,200 00
1649	Repairs and Replacements by Contracts or Open Orders.		2,500 00
1650	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		3,500 00
1651	Fuel		1,000 00
1652	Contingencies		500 00
1653	Purchase of Horses		750 00
1654	Maintenance of Automobiles, including Equipment, Care and Storage		600 00
1655	Forage, Shoeing and Boarding Horses		1,650 00
			309,455 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

Administration.

1656	Salaries—		
	Superintendent	$3,000 00	
	Chief Clerk	1,950 00	
	Inspector, Supplies and Repairs	1,200 00	
	Telephone Operator	900 00	
			$7,050 00

Maintenance.

1657	Salaries and Wages—		
	Foreman	$1,500 00	
	Foreman, at $4 per day	1,212 00	
	Assistant Foremen, at $3,50 per day	4,242 00	
	Assistant Foreman, at $3 per day	909 00	
	Cleaner, at $70 per month	840 00	
	Cleaner, at $65 per month	780 00	
	Cleaners, at $3 per day	1,095 00	
	Cleaners, at $40 per month	7,200 00	
	Engineman, at $4.50 per day	1,642 50	
	Stokers, at $3 per day	5,475 00	
	Carpenters, not to exceed $5 per day	2,908 80	
	Painter (Striper), not to exceed $4.50 per day	1,363 50	
	Painters, not to exceed $4 per day	4,848 00	
	Grainer, not to exceed $4 per day	1,212 00	
	Tinsmith, not to exceed $4.50 per day	1,207 50	
	Plumber's Helper, at $3 per day	1,095 00	
	Mechanics' Helpers, at $3 per day	5,454 00	
	Attendant, at $3 per day	909 00	
	Watchman	900 00	
	Elevatorman	900 00	
	Janitors, at $100 per month	3,600 00	
	Janitor, at $87.50 per month	1,050 00	
	Janitors, at $75 per month	1,800 00	
	Laborers, at $2.50 per day	9,605 00	
			61,748 30
1658	General Supplies		8,500 00
1659	Materials for Repairs and Replacements by Departmental Labor		2,000 00
1660	Repairs and Replacements by Contract or Open Order..		4,000 00
1661	Fuel		7,000 00
1662	Contingencies		750 00
1663	Telephone Service		4,500 00
	Maintenance of Public Baths and Comfort Stations.		
1664	Salaries and Wages—		
	Foreman		1,460 00
1665	Interior Bath—		
	Engineer, not to exceed $4.50 per day	$1,200 00	
	Stokers, not to exceed $3 per day	2,190 00	
	Attendants (Male)	1,800 00	
	Attendants (Female)	960 00	
			6,150 00
1666	Free Floating Bath, Summer Force—		
	Male Attendants, at $75 per month, for three months	$450 00	
	Female Attendants, at $40 per month, for three months	240 00	
	Watchman	900 00	
			1,590 00
			$104,748 30

BUREAU OF BUILDINGS.

Administration.

1667	Salaries—		
	Superintendent	$3,000 00	
	Assistant Superintendent	2,400 00	
	Secretary	1,800 00	
	Chief Clerk	1,800 00	
	Clerk	1,800 00	
	Stenographer and Typewriter	1,200 00	
	Clerks, 4 at $1,050 each	4,200 00	
	Drivers	1,818 00	
			$18,018 00

Inspection and Field Force.

1668	Salaries and Wages—		
	Chief Inspector	$2,000 00	
	Confidential Inspector	1,500 00	
	Steel and Iron Inspector	1,500 00	
	Building Inspector	1,800 00	
	Building Inspector	1,650 00	
	Building Inspectors, 3 at $1,500 each	4,500 00	
	Inspectors, 3 at $1,350 each	4,050 00	
	Building Inspectors, 2 at $1,200	2,400 00	
	Plumbing Inspector	1,800 00	
	Plumbing Inspectors, 3 at $1,500	4,500 00	
	Plan Examiner	1,050 00	
		$26,750 00	
1669	Contingencies	3,500 00	
			48,268 00
	Total		1,349,708 80

PRESIDENT, BOROUGH OF RICHMOND.

GENERAL ADMINISTRATION.

1670	Salaries and Wages—		
	President of the Borough	$5,000 00	
	Secretary of the Borough	2,500 00	
	Stenographer and Assistant Secretary	2,400 00	
	Stenographer to the President	1,200 00	
	Clerk	1,650 00	
	Clerks, 2 at $1,200	2,400 00	
	Stenographer	1,260 00	
	Telephone Operators, at $720	720 00	
	Auto Engineman	1,200 00	
	Consulting Engineer (Acting Commissioner)	8,000 00	
	Assistant Commissioner	3,600 00	
	Secretary to Commissioner	2,100 00	
	Chief Clerk	2,000 00	
	Clerk	1,650 00	
	Clerks, 3 at $1,500	4,500 00	
	Clerks, 2 at $1,200	2,400 00	
	Driver	900 00	
	Clerk	1,050 00	
	Stenographer and Typewriter	1,500 00	
	Stenographer and Typewriter	1,350 00	
	Messenger	1,200 00	
	Messenger	900 00	
		$49,480 00	
1671	General Supplies	650 00	
1672	Maintenance of Automobiles, including Equipment, Care and Storage	1,900 00	
1673	Contingencies	1,250 00	
			$53,280 00

BUREAU OF ENGINEERING (CONSTRUCTION).

1674	Salaries and Wages	$39,450 00	
1675	General Supplies	1,000 00	
1676	Repairs and Replacements by Contract or Open Order.	200 00	
1677	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	1,000 00	
1678	Contingencies	1,350 00	
			$43,000 00

BUREAU OF HIGHWAYS.

Administration.

1679	Salaries—		
	Superintendent	$3,000 00	
	Cashier	1,500 00	

Salaries—
Stenographer and Typewriter..... 1,350 00
Clerk 1,650 00
Clerk 1,200 00
Auto Engineman 1,050 00 $9,750 00

Maintenance.

1680 Salaries and Wages—
Assistant Engineer $2,250 00
Transitman and Computer..... 1,500 00
Inspectors, 6 at $1,500..... 9,000 00
Auto Engineman 1,050 00
Foremen, 3 at $1,200..... 3,600 00
Foremen, 28 at $1,050..... 29,400 00
Foremen, 3 at $900..... 2,700 00
Assistant Foreman, not to exceed $2.50 per day 900 00
Laborer 720 00
Laborers, not to exceed $2.50 per day..... 54,761 00
Steam Roller Enginemen, not to exceed $3.50 per day..... 2,800 00
Driver 900 00 109,581 00
1681 Hired Teams, Horses and Carts..... 86,746 00
1682 General Supplies 2,000 00
1683 Materials for Repairs and Replacements by Departmental Labor 89,194 00
1684 Repairs and Replacements by Contract or Open Order. 500 00
1685 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 2,000 00
1686 Maintenance of Automobiles, including Equipment, Care and Storage..... 1,000 00
1687 Forage, Shoeing and Boarding Horses..... 65 00
1688 Fuel 1,700 00
1689 Contingencies 2,400 00 304,936 00

BUREAU OF SEWERS.

Administration.

1690 Salaries—
Superintendent $3,000 00
Chief Clerk 1,500 00
Clerk 1,200 00
Inspector 1,500 00
Driver 1,050 00 8,250 00

Maintenance, Including Cleaning and Repairs.

1691 Salaries and Wages—
Inspector $1,500 00
Inspector 1,350 00
Transitman and Computer..... 1,350 00
Foremen, 6 at $1,050..... 6,300 00
Foreman 900 00
Driver 900 00
Drivers, 5 at $720..... 3,600 00
Sewer Cleaners, Laborers, etc., not to exceed $2.50 per day..... 29,480 00 45,380 00
1692 Hired Teams, Horses and Carts..... 2,000 00
1693 General Supplies 1,400 00
1694 Materials for Repairs and Replacements by Departmental Labor 5,000 00
1695 Repairs and Replacements by Contract or Open Order.. 700 00
1696 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 1,815 00
1697 Maintenance of Automobiles, including Equipment, Care and Storage..... 450 00
1698 Contingencies 800 00 65,795 00

BUREAU OF STREET CLEANING.

Administration.

1699 Salaries and Wages—
Assistant Engineer (Acting Superintendent) $3,000 00
Assistant Superintendent 1,500 00
Clerks, 2 at $1,650..... 3,300 00
Clerk 1,320 00
Clerk 1,050 00
Typewriting Copyist 900 00 11,070 00

Maintenance and Final Disposition.

1700 Salaries—
District Inspectors, 4 at $1,500..... $6,000 00
Stable Inspectors, 2 at $1,350..... 2,700 00 $8,700 00
1701 Wages—
Foremen $11,550 00
Assistant Foreman 900 00
Laborers 34,304 00
Sweepers 66,932 00
Drivers 35,606 00
Hostlers 10,540 00
Stationary Engineer 1,700 00
Stoker 1,200 00 162,732 00
1702 Hired Teams, Horses and Carts..... 8,500 00
1703 General Supplies 3,000 00
1704 Materials for Repairs and Replacements by Departmental Labor 12,875 00
1705 Repairs and Replacements by Contract or Open Order. 3,000 00
1706 Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage..... 1,200 00
1707 Maintenance of Automobiles, including Equipment, Care and Storage 500 00
1708 Forage, Shoeing and Boarding Horses..... 19,000 00
1709 Fuel 1,100 00
1710 Contingencies..... 500 00 232,177 00

BUREAU OF PUBLIC BUILDINGS AND OFFICES.

1711 Salaries and Wages—
Superintendent $3,000 00
Clerk 1,500 00
Foremen, 3 at $1,200..... 3,600 00
Foreman 1,050 00
Assistant Foreman 1,014 00
Janitors, 2 at $1,050..... 2,100 00
Janitor 1,350 00
Janitress 540 00
Female Cleaners, 6 at $400..... 2,400 00
Elevatorman 900 00
Stationary Engineman 1,638 00
Stationary Engineman 1,456 00
Stokers, 4 at $1,092..... 4,368 00
Varnisher 780 00
Driver 900 00
Laborers 13,746 00 40,342 00
1712 General Supplies 8,369 00
1713 Telephone Service 3,800 00
1714 Materials for Repairs and Replacements by Departmental Labor..... 4,000 00
1715 Purchase of Furniture and Fittings..... 2,500 00
1716 Fuel 3,700 00
1717 Contingencies..... 300 00 63,011 00

BUREAU OF BUILDINGS.

Administration.

1718 Salaries and Wages—
Superintendent $2,500 00
Assistant Superintendent 2,000 00
Chief Clerk 1,800 00
Clerk 1,650 00
Secretary 1,200 00
Stenographer and Typewriter..... 1,050 00
Office Boy 300 00 $10,500 00

Inspection and Field Force.

1719 Salaries and Wages—
Chief Inspector $2,000 00
Inspectors, 2 at $1,800..... 3,600 00
Inspectors, 4 at $1,500..... 1,050 00
Driver 1,050 00
Inspector 1,200 00 13,850 00
1720 General Supplies 500 00
1721 Repairs and Replacements by Contract or Open Order. 200 00
1722 Maintenance of Automobiles, including Equipment, Care and Storage 900 00
1723 Forage, Shoeing and Boarding Horses..... 500 00
1724 Contingencies..... 900 00 27,350 00 789,549 00

Total, City of New York..... $153,775,145 53

THE COUNTY OF NEW YORK.

BOARD OF CITY RECORD, COUNTY OF NEW YORK.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS OTHER THAN SUPREME COURT.

1725 Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks..... $12,950 00
1726 Stationery, including Letter or Writing Paper or Envelopes, with Printed Headings or Endorsements.... 11,450 00
1727 Blank Books 24,600 00 $49,000 00

SHERIFF OF THE COUNTY OF NEW YORK.

SHERIFF'S OFFICE.

1728 Salaries—
Sheriff $12,000 00
Counsel 6,000 00
Under Sheriff 5,000 00
Auditor 2,860 00
Deputy Sheriffs, 12 at $2,500 each..... 30,000 00
Entry Clerk 2,500 00
Jury Clerk 2,000 00
Law Clerk 1,600 00
Cashier 2,400 00
Bond Clerk 1,800 00
Arrest Clerk 1,500 00
Secretary 1,500 00
Assistant Entry Clerk..... 1,500 00
Auditor's Clerk 1,350 00

Salaries—

Clerks, 2 at $1,200	2,400 00	
Under Sheriff's Clerk	1,200 00	
Assistant Bond Clerk	1,200 00	
Prison Guards, 6 at $1,200	7,200 00	
Confidential Stenographer	1,080 00	
Messenger	1,080 00	
Assistant Deputy Sheriffs, 12 at $1,000	12,000 00	
Van Drivers, 2 at $900	1,800 00	
Telephone Operator	1,050 00	
Accountant	600 00	
Cleaner	360 00	
Cleaners, 2 at $300	600 00	
		$102,580 00

COUNTY JAIL.

1729	Salaries—		
	Warden	$3,000 00	
	Keepers, 11 at $1,000	11,000 00	
	Clerk	1,200 00	
	Engineer	1,200 00	
	Physician	1,000 00	
	Assistant Engineer	900 00	
	Cleaners, 3 at $900	2,700 00	
	Cooks, 2 at $300	600 00	
	Laundress	264 00	
	Assistant Cook	240 00	
	Assistant Cook	228 00	
			22,332 00
1730	Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage		200 00
1731	Forage, Shoeing and Boarding Horses		800 00
1732	Support of Indigent Prisoners		3,100 00
1733	General Supplies		350 00
1734	Telephone Service		1,050 00
1735	Contingencies		2,650 00
			133,062 00

SUPREME COURT, FIRST DEPARTMENT.

1736	Salaries—		
	Justices, 30 at $11,500	$345,000 00	
	Librarian	4,000 00	
	Deputy Clerks, 4 at $4,000	16,000 00	
	Special Deputy Clerk and Supreme Court Jury Clerk	4,000 00	
	Special Deputy Clerk assigned to Appellate Term	4,000 00	
	Confidential Clerk	4,000 00	
	Law Clerk	3,500 00	
	Equity Clerk	3,500 00	
	Deputy Clerk	3,500 00	
	Justices' Clerks, 34 at $2,500	85,000 00	
	Assistant to Clerk, Appellate Division	2,750 00	
	Assistant Librarian	3,000 00	
	Crier	3,000 00	
	Assistant Crier	2,500 00	
	Assistant Special Deputy Clerks, 2 at $3,000	6,000 00	
	Interpreters, 4 at $3,000	12,000 00	
	Stenographers, 34 at $3,000	102,000 00	
	Deputy Clerks, 25 at $2,500	62,500 00	
	Assistant Special Deputy Clerks	75,000 00	
	Attendants, 132 at $1,500	198,000 00	
	Typewriter	1,500 00	
	Telephone Operator	1,000 00	
			$941,750 00
1737	Salaries of Official Referees (Chap. 379, Laws of 1908)		23,000 00
1738	Compensation of Justices from Other Districts		50,000 00
1739	General Supplies, including Printing		22,600 00
1740	Telephone Service		400 00
1741	Contingencies		1,500 00
			$1,039,250 00

APPELLATE DIVISION, COURT HOUSE, MAINTENANCE OF.

1742	Salaries and Wages—		
	Custodian	$1,500 00	
	Chief Engineer	1,500 00	
	Engineers, 2 at $1,400	2,800 00	
	Firemen, 2 at $1,020	2,040 00	
	Watchman	900 00	
	Elevatorman	900 00	
	Porters, 7 at $720	5,040 00	
	Cleaners, 10 at $360	3,600 00	
	Telephone Operator	1,000 00	
			$19,280 00
1743	General Supplies		7,230 00
1744	Repairs and Replacements by Contract or Open Order		3,500 00
1745	Contingencies		750 00
1746	Telephone Service		600 00
			31,360 00
			1,070,610 00

COURT OF GENERAL SESSIONS, COUNTY OF NEW YORK.

1747	Salaries—		
	Judges, 7 at $15,000	$105,000 00	
	Clerk	5,000 00	
	Deputy Clerks, 10 at $4,000	40,000 00	
	Deputy Clerk	3,000 00	
	Assistant Clerk	4,000 00	
	Record Clerks, 6 at $2,000	12,000 00	
	Record Clerks (additional for preparation of Calendars), 3 at $2,000	6,000 00	
	Stenographers, 6 at $2,500	15,000 00	
	Interpreters, 5 at $2,000	10,000 00	
	Warden, Grand Jury	2,000 00	
	Attendants, 62 at $1,500	93,000 00	
			$295,000 00
1748	Contingencies		1,250 00
1749	Telephone Service		1,250 00
			297,500 00

SURROGATES' COURT, COUNTY OF NEW YORK.

GENERAL ADMINISTRATION.

1750	Salaries—		
	Surrogates, 2 at $15,000	$30,000 00	
	Chief Clerk	10,000 00	
	Deputy Chief Clerk	5,000 00	
	First Law Assistant	4,300 00	
	Second Law Assistant	3,300 00	
	Third Law Assistant	3,300 00	
	Clerk of Court	4,000 00	
	Deputy Clerk of Court	2,250 00	
	Clerk—Additional Part of Court	2,500 00	
	Clerks to Surrogate, 2 at $2,500	5,000 00	
	Stenographer	3,000 00	
	Stenographer	2,500 00	
	Stenographer	1,200 00	
	Assistant Stenographer	1,200 00	
	Stenographer to Surrogate	1,500 00	
	Interpreter	1,500 00	
	Calendar Clerk and Superintendent of Supplies	2,250 00	
	Probate Clerk	4,000 00	
	First Assistant Probate Clerk	2,000 00	
	Second Assistant Probate Clerk	1,500 00	
	Third Assistant Probate Clerk	1,000 00	
	Administration Clerk	2,500 00	
	First Assistant Administration Clerk	2,000 00	
	Second Assistant Administration Clerk	1,500 00	
	Third Assistant Administration Clerk	1,200 00	
	Guardian Clerk	1,700 00	
	Assistant Guardian Clerk	1,200 00	
	Guardian Accounting Clerk	1,700 00	
	Accounting Clerk	2,250 00	
	Assistant Accounting Clerk	1,600 00	
	Entry Clerk	1,800 00	
	Certificate Clerk	1,500 00	
	Bookkeeper	1,500 00	
	Special Searcher	1,500 00	
	Correspondence Searcher	1,400 00	
	Clerk of Records	1,500 00	
	Record Clerks, 3 at $1,200	3,600 00	
	Record Clerks, 2 at $1,000	2,000 00	
	Superintendent, Recording Clerks	1,800 00	
	Chief Examiner	1,500 00	
	Assistant Examiner	1,200 00	
	Recording Clerks, 20 at $1,000	20,000 00	
	Copyist in Charge, Copying Department	1,200 00	
	Copyists, 3 at $1,000	3,000 00	
	Librarian and Chief Messenger	1,500 00	
	Court Attendants, 6 at $1,500	9,000 00	
	Messengers, 3 at $1,500	4,500 00	
			$165,450 00
1751	General Supplies		1,540 00
1752	Telephone Service		125 00
1753	Contingencies		535 00
1754	Fund for Sheriff's Service		500 00

PRESERVATION OF PUBLIC RECORDS.

1755	Salaries—		
	Superintendent of Preservation of Public Records	$1,800 00	
	Recording Clerks, 8 at $1,200	9,600 00	
			11,400 00
1756	General Supplies		280 00
			179,830 00

MISCELLANEOUS, COUNTY OF NEW YORK.

1757	County Contingent Fund	$12,000 00
1758	Fees and Expenses of Jurors	200,000 00
1759	Disbursements and Fees under section 658, Code of Criminal Procedure	4,500 00
1760	Fees of Stenographers, for transcribing minutes of Trials in the Court of General Sessions and Supreme Court, and providing for the expense of preparing and printing Minutes and Judgment Rolls in the Court of General Sessions and Supreme Court, as provided by chapter 81, Laws of 1888, and chapter 379, Laws of 1889	15,000 00
1761	Fees of Witnesses subpoenaed on behalf of the People, etc. (chapter 98, Laws of 1895)	25,500 00

1762 For the Establishment and Maintenance of a Library for the Court of General Sessions and for the Supreme Court, Criminal Part, to be expended under the direction of the Judges of the Court of General Sessions 1,000 00

1763 Rent—For payment of rent of property leased for public offices and other purposes of the County of New York for which no other provision has been made.. 28,270 00

1764 Advertising Official Canvass and Election Notices..... 10,000 00

1765 Compensation for Extra Clerks to Board of County Canvassers 3,500 00

299,770 00

THE NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.

ARMORIES AND DRILL ROOMS. FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD AND NAVAL MILITIA, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

Wages—

1766 Seventh Regiment:

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
7 Laborers, at $3 per day each	7,665 00	
		$13,505 00

1767 Eighth Coast Artillery District—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
1 Expert Laborer, at $3 per day	1,095 00	
6 Laborers, at $3 per day each	6,570 00	
		13,505 00

1768 Ninth Coast Artillery District—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
6 Laborers, at $3 per day each	6,570 00	
		12,410 00

1769 Twelfth Regiment—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
6 Laborers, at $3 per day each	6,570 00	
		12,410 00

1770 Twenty-second Regiment—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
6 Laborers, at $3 per day each	6,570 00	
		12,410 00

1771 Sixty-ninth Regiment—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
9 Laborers, at $3 per day each	9,855 00	
		15,695 00

1772 Seventy-first Regiment—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
9 Laborers, at $3 per day each	9,855 00	
		15,695 00

1773 First Battery—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
1 Chief Hostler, at $3 per day	1,095 00	
6 Hostlers, at $3 per day each	6,570 00	
1 Expert Laborer, at $3 per day	1,095 00	
3 Laborers, at $3 per day each	3,285 00	
		17,885 00

1774 Second Battery—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Expert Laborer, at $3 per day	1,095 00	
3 Laborers, at $3 per day each	3,285 00	
		7,300 00

1775 Squadron "A"—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
21 Laborers, at $3 per day each	22,995 00	
		28,835 00

1776 First Company Signal Corps—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
2 Laborers, at $3 per day	2,190 00	
		5,110 00

1777 Headquarters Field Hospital—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Laborer, at $3 per day	1,095 00	
		4,015 00

1778 Headquarters First Battalion Field Artillery—

1 Armorer, at $4 per day		1,460 00

1779 Headquarters First Brigade—

1 Armorer, at $4 per day		1,460 00

1780 First Battalion Naval Militia—

1 Armorer, at $4 per day	$1,460 00	
1 Janitor, at $4 per day	1,460 00	
1 Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $4 per day	1,460 00	
1 Assistant Engineer, at $3.50 per day	1,277 50	
1 Yeoman, at $4 per day	1,460 00	
1 Chief Boatswain's Mate, at $3.50 per day	1,277 50	
1 Gunner's Mate, at $3 per day	1,095 00	
5 Laborers, at $3 per day each	5,475 00	
1 Laborer, at $2 per day	730 00	
		17,155 00

1781 Headquarters Naval Militia—

1 Armorer, at $4 per day		1,460 00

1782 Seventh Regiment Armory, Trustees of, for payment to the Trustees of the Seventh Regiment Armory Building, for repairing, altering, maintaining and improving said building pursuant to the provisions of Chapter 518, Laws of 1893 ..... 8,000 00

188,310 00

COMMISSIONER OF RECORDS, COUNTY OF NEW YORK.

1783 Salaries—

Commissioner	$6,000 00	
Deputy Commissioner	4,000 00	
Superintendent	3,500 00	
Secretary	2,000 00	
Chief Clerk	2,100 00	
Clerk, Examiner of Records	2,000 00	
Clerks, 3 at $1,500	4,500 00	
Clerks, 6 at $1,350	8,100 00	
Clerks, 10 at $1,200	12,000 00	
Stenographers and Typewriters, 10 at $1,200	12,000 00	
Draftsman	1,200 00	
Bookbinder, Foreman	1,300 00	
Bookbinders, 4 at $1,200	4,800 00	
Messenger	900 00	
Laborers, 10 at $720	7,200 00	
		$71,600 00

1784 General Supplies 1,750 00

1785 Materials for Repairs and Replacements by Departmental Labor 700 00

1786 Repairs and Replacements by Contract or Open Order. 150 00

1787 Apparatus—Machinery, Vehicles, Harness, etc., including care and storage 200 00

1788 Telephone Service 192 00

1789 Contingencies 250 00

74,842 00

COUNTY CLERK, COUNTY OF NEW YORK.

1790 General Administration, Salaries—

County Clerk	$15,000 00	
Deputy County Clerk	6,000 00	
Second Deputy County Clerk	4,000 00	
Third Deputy County Clerk	1,300 00	
Secretary and Confidential Clerk	3,000 00	
Cashier	2,600 00	
Assistant Law and Judgment Roll Docket Clerk	2,500 00	
Clerks of Common Pleas and Superior Court Records, 2 at $2,500	5,000 00	
General Clerk	2,400 00	
General Clerks, 2 at $2,100	4,200 00	
General Clerks, 11 at $1,500	16,500 00	
General Clerks, 3 at $1,200	3,600 00	
Certificate Clerk	2,000 00	
Assistant Equity Clerk	1,800 00	
Assistant Cashier	1,600 00	
Chief Docket Clerk	1,500 00	
Chief of Old Records	1,500 00	
Recording and Index Clerk	1,500 00	
Recording Clerk	1,500 00	
Recording Clerk	1,200 00	
Mechanic's Lien Clerk	1,300 00	
Notarial Clerks, 2 at $1,500	3,000 00	
Messenger	1,200 00	
Attendant	1,200 00	
Custodian, 2 at $1,200	2,400 00	
		$87,800 00

Searchers:

Chief Searcher	$2,500 00	
Searcher	2,400 00	
Searcher	2,000 00	
General Clerk	2,400 00	
General Clerk	2,100 00	

General Administration, Salaries—
Searchers:

General Clerks, 2 at $1,500	3,000 00	
Docket Clerk	1,500 00	
Recording Clerk	1,200 00	
Custodian and Copying Clerk	1,200 00	
Custodian	1,200 00	
	19,500 00	
		$107,300 00

1791 Marriage Bureau, Salaries—

Recording Clerks, 5 at $1,200		6,000 00

1792 Preservation of Public Records, Salaries—

Chief Recording Clerk	$2,000 00	
Assistant Chief Recording Clerk	1,400 00	
Recording Clerks, 2 at $1,500	3,000 00	
Recording Clerks, 4 at $1,200	4,800 00	
General Clerk	1,200 00	
Bookbinders, 2 at $1,200	2,400 00	
		14,800 00

1793 Reindexing Liens and Claims upon Land, Salaries—

Index Clerk	$2,500 00	
Index Clerks, 4 at $1,500	6,000 00	
Index Clerk	1,200 00	
Custodian	1,200 00	
	10,900 00	
1794 General Supplies	500 00	
1795 Telephone Service	200 00	
1796 Contingencies	1,000 00	
		140,700 00

DISTRICT ATTORNEY, COUNTY OF NEW YORK.

1797 General Administration, Salaries—

District Attorney	$12,000 00	
Assistant District Attorneys, 10 at $7,500	75,000 00	
Deputy Assistant District Attorney	5,000 00	
Deputy Assistant District Attorneys, 3 at $4,000	12,000 00	
Deputy Assistant District Attorneys, 3 at $3,500	10,500 00	
Deputy Assistant District Attorneys, 4 at $3,000	12,000 00	
Deputy Assistant District Attorneys, 10 at $2,500	25,000 00	
Deputy Assistant District Attorneys, 2 at $2,000	4,000 00	
Secretary	3,300 00	
Chief Clerk	6,000 00	
Deputy Chief Clerk	3,500 00	
Auditor	3,500 00	
Clerks, 2 at $2,100	4,200 00	
Clerks, 9 at $1,500	13,500 00	
Clerks, 9 at $1,200	10,800 00	
Librarian	1,000 00	
Stenographer to Grand Jury	3,000 00	
Stenographer to Grand Jury	2,500 00	
Chief Stenographer	2,500 00	
Stenographers, 2 at $1,800	3,600 00	
Stenographers, 15 at $1,200	18,000 00	
Process Servers, 2 at $1,500	3,000 00	
Process Servers, 17 at $1,200	20,400 00	
Process Servers, 30 at $1,000	30,000 00	
Messenger	1,200 00	
Messengers, 2 at $720	1,440 00	
Messengers, 4 at $600	2,400 00	
Office Boys, 4 at $420	1,680 00	
Office Boy	300 00	
		$291,320 00

1798 Bureau of Special Sessions Information, Salaries—

Deputy Assistant District Attorney	$5,000 00	
Deputy Assistant District Attorney	3,500 00	
Clerk	2,400 00	
Clerk	1,800 00	
Clerk	1,200 00	
Stenographer	1,200 00	
Process Servers, 2 at $1,000	2,000 00	
Office Boy	420 00	
		$17,520 00
1799 General Supplies		1,550 00
1800 Telephone Service		4,500 00
1801 Contingencies		43,950 00
		358,840 00

COMMISSIONER OF JURORS, COUNTY OF NEW YORK.

1802 Salaries—

Commissioner	$6,000 00	
Assistant Commissioner	3,000 00	
Secretary	3,000 00	
Clerks, 5 at $1,500	7,500 00	
Clerks, 14 at $1,200	16,800 00	
Messengers as Notice Servers, 8 at $1,200	9,600 00	
Messengers, 2 at $1,200	2,400 00	
		$48,300 00
1803 General Supplies		2,244 00
1804 Telephone Service		200 00
1805 Contingencies		2,556 00
		53,300 00

THE REGISTER, COUNTY OF NEW YORK.

General Administration.

1806 Salaries and Wages—

Register	$12,000 00	
Deputy Register	5,000 00	
Assistant Deputy Register	4,000 00	
Chief Clerk	3,400 00	
Satisfaction Clerk	3,400 00	
Chief Block Index Clerk	3,000 00	
Chattel Mortgage Clerk	3,000 00	
Secretary	2,500 00	
Cashier	2,500 00	
Chief Searcher and Examiner	2,500 00	
Superintendent of Indexing	2,000 00	
Assistant Satisfaction Clerk	2,100 00	
Chief Record Clerk	2,100 00	
Searchers and Examiners, 2 at $2,000	4,000 00	
Supervisor of Indexing	1,800 00	
Verification Clerk	1,720 00	
Examiner	1,680 00	
Messenger	1,500 00	
Messenger	1,200 00	
Clerks, 19 at $1,500	28,500 00	
Clerks, 2 at $1,360	2,720 00	
Clerks, 51 at $1,200	61,200 00	
Clerk	1,000 00	
Custodians, 10 at $1,200	12,000 00	
Custodian	1,000 00	
Recording Clerks at 5 cents per folio	45,100 00	
		$210,920 00
1807 General Supplies		1,000 00
1808 Telephone Service		250 00
1809 Contingencies		500 00
		$212,670 00

Preservation of Public Records.

1810 Salaries—

Chief Clerk	$1,800 00	
Clerks, 3 at $1,200	3,600 00	
Clerks, 6 at $1,100	6,600 00	
Bookbinders, 3 at $1,200	3,600 00	
		$15,600 00
1811 Copying Old Maps		5,000 00
1812 General Supplies		500 00
		21,100 00

Land Title Registration.

1813 For Salaries of Positions Established Pursuant to Provisions of Chapter 444, Laws of 1908		2,800 00
1814 General Supplies		200 00
		236,770 00

PUBLIC ADMINISTRATOR, COUNTY OF NEW YORK.

1815 Salaries—

Public Administrator	$10,000 00	
Assistant Public Administrator	5,000 00	
Chief Clerk	2,700 00	
Second Clerk	1,900 00	
Agent	1,400 00	
Messenger	1,000 00	
Stenographer	1,200 00	
Stenographer	1,150 00	
Warehouse Custodian	720 00	
Page	260 00	
		$25,330 00
1816 General Supplies		300 00
1817 Contingencies		300 00
1818 Telephone Service		200 00
		26,130 00

CHARITABLE INSTITUTIONS, COUNTY OF NEW YORK.

Syracuse State Institution for Feeble-minded Children.

(Chapter 546, Laws of 1896.)

1819 For furnishing clothing, etc., for 89 inmates, at $20 each	$1,780 00	
Funeral expenses of inmate	17 00	
		$1,797 00

Institution for the Improved Instruction of Deaf Mutes.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1820 For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	21,500 00

New York Institution for the Blind.

(Section 230, Greater New York Charter, as amended by Chapter 196, Laws of 1899.)

1821 For clothing 54 State Pupils, at $50 each per annum.	2,700 00

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.
(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1822 For support and education of County Pupils, at $300 per annum, and for clothing State Pupils at $30 per annum 43,700 00

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.
(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1823 For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum 45,000 00

WESTERN NEW YORK INSTITUTION FOR DEAF MUTES.
(Chapter 325, Laws of 1863.)
(Chapter 331, Laws of 1876.)
(Chapter 36, Laws of 1892.)

1824 For clothing State Pupils, at $30 per annum..... 60 00

CENTRAL NEW YORK INSTITUTION FOR DEAF MUTES.
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1825 For clothing State Pupils, at $30 per annum..... 120 00

114,877 00

Total, New York County.....$3,223,541 00

THE COUNTY OF KINGS.

1826 For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909..... $18,872 85

1827 For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909..... 17,101 62

1828 For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909..... 10,688 50

$46,662 97

BOARD OF CITY RECORD, KINGS COUNTY.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS.

1829 Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks..... $8,300 00

1830 Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements.... 4,825 00

1831 Blank Books 22,375 00

1832 Supreme Court, Second Department..... 6,500 00

42,000 00

REGISTER OF KINGS COUNTY.

GENERAL ADMINISTRATION.

1833 Salaries—

Register	$8,000 00	
Deputy Register	5,000 00	
Assistant Deputy Register	2,500 00	
Counsel	3,500 00	
Expert Clerk	3,500 00	
Tickler Clerk	2,500 00	
Chief Block Index Clerk	2,500 00	
Chief Clerk of Records	1,800 00	
Chief Current Index Clerk	1,800 00	
Secretary	1,500 00	
Clerks, 15 at $1,500	22,500 00	
Bookkeeper	1,500 00	
Comparers, 4 at $1,500	6,000 00	
Assistant Comparers, 3 at $1,500	4,500 00	
Clerks, 14 at $1,200	16,800 00	
Stenographer	1,200 00	
Custodians, 5 at $1,000	5,000 00	
Messengers, 3 at $800	2,400 00	
Keeper of Coat Room	720 00	
Salaried Copyists, 35 at $1,200	42,000 00	
Telephone Operator	720 00	
	135,940 00	

1834 General Supplies..... 1,500 00

1835 Contingencies 2,600 00

1836 Telephone Service..... 400 00

$140,440 00

HANDLING BOOKS AND PAPERS.

1837 Salaries—

Messengers, 8 at $720	$5,760 00	
Laborers, 4 at $720	2,880 00	
		8,640 00

1838 New Land Map of the County of Kings, Pursuant to the Provisions of chapter 344, Laws of 1909..... 3,500 00

RECOPYING AND INDEXING CONVEYANCES AND MUTILATED RECORDS.

Salaries—

1839 Copyists, 12 at $1,200..... 14,400 00

COMPENSATION OF COPYISTS AND RECORDING CLERKS.

1840 Copyists, at 5c. per folio..... 48,000 00

LAND TITLE REGISTRATION.

1841 Expenses of..... 6,000 00

220,980 00

SHERIFF OF KINGS COUNTY.

SHERIFF'S OFFICE.

1842 Salaries—

Sheriff	$15,000 00	
Under Sheriff	6,000 00	
Counsel	5,000 00	
Chief Clerk	2,500 00	
Deputy Sheriffs, 8 at $2,200 each	17,600 00	
Assistant Clerk	2,000 00	
Equity Clerk	2,000 00	
Assistant Equity Clerk	1,800 00	
Secretary	1,500 00	
Assistant Deputy Sheriffs, 8 at $1,000 each	8,000 00	
Confidential Stenographer	1,000 00	
Telephone Operator	750 00	
		$63,150 00

COUNTY JAIL.

1843 Salaries—

Warden of Jail	$3,000 00	
Deputy Warden of Jail	2,000 00	
Bookkeeper	1,500 00	
Keepers, 6 at $1,200 each	7,200 00	
Matrons, 2 at $1,000 each	2,000 00	
Cleaners, 2 at $750 each	1,500 00	
Cooks, 2 at $300 each	600 00	
Laundress	250 00	
		18,050 00

1844 General Supplies..... 6,700 00

1845 Telephone Service..... 900 00

1846 Contingencies 3,220 00

92,020 00

SUPREME COURT, SECOND DEPARTMENT.

1847 Salaries—

Justices, 13 at $10,300	$133,900 00	
General Clerk	5,000 00	
Clerk	4,500 00	
Clerk	4,000 00	
Clerks, 2 at $3,500	7,000 00	
Clerks, 8 at $3,000	24,000 00	
Clerks, 8 at $2,500	20,000 00	
Assistant Clerks, 6 at $2,000	12,000 00	
Stenographers, 12 at $3,600	43,200 00	
Chief Attendant	3,000 00	
Attendants, 42 at $1,800	75,600 00	
Interpreters, 2 at $2,500	5,000 00	
Interpreter, German	2,000 00	
Interpreter, Slavonic	2,000 00	
Interpreter, Scandinavian	1,500 00	
Clerks to Justices, 10 at $2,500	25,000 00	
Typewriter Operator	1,500 00	
		$369,200 00

1848 Compensation of Justices from other Counties assigned to Kings County..... 1,000 00

1849 General Supplies..... 2,000 00

1850 Increase of Law Library..... 1,000 00

1851 Telephone Service..... 1,000 00

1852 Contingencies 1,000 00

1853 Appellate Division, Contingencies..... 1,000 00

376,200 00

COUNTY COURT, KINGS COUNTY.

1854 Salaries—

County Judges, 2 at $10,000	$20,000 00	
Chief Clerk	7,500 00	
Deputy Clerk	3,600 00	
Confidential Clerks, 2 at $2,000	4,000 00	
Stenographer	3,600 00	
Stenographer	3,000 00	
Clerks, 2 at $3,400	6,800 00	
Clerks, 2 at $3,300	6,600 00	
Clerk	3,100 00	
Clerk	2,900 00	
Clerk	2,600 00	
Clerks, 3 at $2,400	7,200 00	
Chief Court Attendant	3,300 00	
Warden Grand Jury	3,000 00	
Interpreters, 3 at $2,500	7,500 00	
County Detectives, 2 at $2,400	4,800 00	
Probationary Officers, 2 at $2,500	5,000 00	
Court Attendants, 21 at $1,800	37,800 00	
		$132,300 00

1855 Additional Compensation to Justices for Services in Drawing Jurors..... 5,000 00

1856 General Supplies..... 675 00

1857	Telephone Service	423 00	
1858	Contingencies	560 00	
			138,958 00

SURROGATE'S COURT, KINGS COUNTY.

1859	Salaries—		
	Surrogate	$10,000 00	
	Chief Clerk and Clerk of the Court	7,000 00	
	Probate Clerk	3,500 00	
	Administration Clerk	3,500 00	
	Accounting Clerk	3,500 00	
	Chief of Records and Interpreter	2,500 00	
	Stenographer	3,000 00	
	Guardian Accounting Clerk	2,700 00	
	Clerk or Stenographer to Surrogate	2,100 00	
	Index Clerk	1,800 00	
	Assistant Administration Clerk	1,800 00	
	Assistant Probate Clerk	2,300 00	
	Calendar Clerk	1,700 00	
	Certificate Clerk	1,950 00	
	Chief Court Attendant	1,750 00	
	Assistant Accounting Clerk	1,500 00	
	Assistant Chief of Records	1,250 00	
	Court Officers, 5 at $1,500	7,500 00	
	Recording Clerks, 8 at $1,100	8,800 00	
	Recording Clerks, 2 at $1,200	2,400 00	
	Chief Recording Clerk	1,200 00	
	Clerk	1,200 00	
	Clerks, 2 at $1,400	2,800 00	
	Chief Custodian	1,200 00	
	Custodians, 2 at $1,000	2,000 00	
	Typewriter and Copyist	1,200 00	
	Stenographer's Amanuensis	1,100 00	
	Clerk and Stenographer to Chief Clerk	1,100 00	
	Messenger	1,000 00	
	Telephone Operator	750 00	
	Laborers, 4 at $720	2,880 00	
			$86,980 00
1860	Telephone Service		300 00
1861	Contingencies		500 00
1862	General Supplies		1,200 00
			88,980 00

COMMISSIONER OF RECORDS, KINGS COUNTY.

1863	Salaries—		
	Commissioner of Records	$5,000 00	
	Deputy Commissioner of Records	4,000 00	
	Superintendent	3,500 00	
	Assistant Superintendent	3,500 00	
	Chief Clerk	2,100 00	
	Secretary	1,700 00	
	Stenographer	1,100 00	
	Stenographer	1,000 00	
	Chief of Division	2,100 00	
	Chiefs of Division, 5 at $1,800	9,000 00	
	Chief of Division	1,600 00	
	Assistant Chief of Division	1,800 00	
	Assistant Chiefs of Division, 3 at $1,500	4,500 00	
	Clerks, 3 at $1,500	4,500 00	
	Clerk	1,400 00	
	Clerks, 4 at $1,300	5,200 00	
	Clerks, 16 at $1,200	19,200 00	
	Clerks, 11 at $1,000	11,000 00	
	Clerks, 3 at $900	2,700 00	
	Translator and Searcher	1,700 00	
	Custodians, 2 at $1,000	2,000 00	
	Supervisors of Copying Mutilated Records, 2 at $1,800	3,600 00	
	Foreman of Bindery	1,200 00	
	Bookbinders, 3 at $1,000	3,000 00	
	Laborers, 3 at $720	2,160 00	
			$98,560 00
1864	General Supplies		1,008 00
1865	Telephone Service		324 00
1866	Contingencies		108 00
			100,000 00

COUNTY CLERK, KINGS COUNTY.

GENERAL ADMINISTRATION.

1867	Salaries—		
	County Clerk	$8,000 00	
	Deputy County Clerk	5,000 00	
	Counsel	3,500 00	
	Expert of Records	3,000 00	
	Assistant Deputy County Clerk	2,500 00	
	Bookkeeper	2,000 00	
	Notary Clerk	2,000 00	
	Cashier	2,000 00	
	Assistant Cashier	1,800 00	
	Secretary	1,500 00	
	Equity Clerks, 4 at $1,500	6,000 00	
	Docket Clerks, 3 at $1,500	4,500 00	
	Index Clerks, 3 at $1,500	4,500 00	
	Law Clerk	1,500 00	
	Satisfaction Clerk	1,500 00	
	Document Searchers, 2 at $1,200	2,400 00	
	Stenographer	1,200 00	
	Chief of Old Records	1,100 00	
	Assistants to Chief of Old Records, 2 at $1,000	2,000 00	
	Salaries—		
	Comparers, 2 at $1,000	2,000 00	
	Custodians, 3 at $1,000	3,000 00	
	Messengers, 2 at $800	1,600 00	
	Copyists, 6 at 5 cents per folio	6,600 00	
			$69,200 00

MARRIAGE BUREAU.

1868	Salaries—		
	Chief Clerk	$1,200 00	
	Clerks, 3 at $1,200	3,600 00	
			4,800 00

RECOPYING AND REBINDING MUTILATED AND WORNOUT RECORDS.

1869	Salaries—		
	Copyists of Mutilated Records, 6 at $1,200		7,200 00

MOVING AND SORTING VARIOUS RECORDS AND BOOKS.

1870	Salaries—		
	Laborers, 4 at $720	2,880 00	
			$84,080 00
	Repairs and Replacements by Contract or Open Order—		
1871	Recopying and Renovating Maps	$400 00	
1872	Recopying and Rebinding Mutilated and Wornout Records	500 00	
			900 00
1873	Telephone Service		400 00
1874	Contingencies		1,200 00
			88,980 00

DISTRICT ATTORNEY, KINGS COUNTY.

1875	Salaries—		
	District Attorney	$10,000 00	
	Assistant District Attorney	7,000 00	
	Assistant District Attorneys, 3 at $6,000	18,000 00	
	Assistant District Attorneys, 6 at $5,000	30,000 00	
	Chief Clerk	5,000 00	
	Clerks, 3 at $1,500	4,500 00	
	Clerk	1,200 00	
	Stenographer and Private Secretary	2,000 00	
	Stenographers and Private Secretaries, 4 at $1,500	6,000 00	
	Stenographer and Clerk	1,500 00	
	Messenger	1,200 00	
	Doorkeeper	1,200 00	
	County Detectives, 12 at $1,200	14,400 00	
	Telephone Operator	720 00	
			$102,720 00
1876	General Supplies		2,000 00
1877	Contingencies		9,000 00
1878	Telephone Service		400 00
			114,120 00

COMMISSIONER OF JURORS, KINGS COUNTY.

1879	Salaries—		
	Commissioner	$6,000 00	
	Deputy Commissioner	3,500 00	
	Secretary	2,500 00	
	Clerk	1,800 00	
	Clerks, 4 at $1,500	6,000 00	
	Clerk	1,350 00	
	Clerk	1,200 00	
	Fine and Exempt Clerk	1,800 00	
	Jury Notice Servers, 9 at $1,200	10,800 00	
	Stenographer and Typewriter	840 00	
			$35,790 00
1880	General Supplies		150 00
1881	Telephone Service		200 00
1882	Contingencies		1,450 00
			37,590 00

THE NATIONAL GUARD AND NAVAL MILITIA, KINGS COUNTY.

ARMORIES AND DRILL ROOMS—FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD AND NAVAL MILITIA, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

	Wages—		
1883	Thirteenth Coast Artillery District—		
	1 Armorer, at $5 per day	$1,825 00	
	1 Janitor, at $4 per day	1,460 00	
	1 Engineer, at $4 per day	1,460 00	
	1 Assistant Engineer, at $4 per day	1,460 00	
	1 Expert Laborer, at $3 per day	1,095 00	
	12 Laborers, at $3 per day each	13,140 00	
			$20,440 00
1884	Fourteenth Regiment—		
	1 Armorer, at $4 per day	$1,460 00	
	1 Janitor, at $4 per day	1,460 00	
	1 Engineer, at $4 per day	1,460 00	
	1 Assistant Engineer, at $4 per day	1,460 00	
	9 Laborers, at $3 per day each	9,855 00	
			15,695 00
1885	Twenty-third Regiment—		
	1 Armorer, at $4 per day	$1,460 00	
	1 Janitor, at $4 per day	1,460 00	
	1 Engineer, at $4 per day	1,460 00	
	2 Assistant Engineers, at $4 per day each	2,920 00	
	8 Laborers, at $3 per day each	8,760 00	
			16,060 00

1886	Forty-seventh Regiment—			
	1 Armorer, at $4 per day	$1,460 00		
	1 Janitor, at $4 per day	1,460 00		
	1 Engineer, at $4 per day	1,460 00		
	1 Assistant Engineer, at $4 per day	1,460 00		
	8 Laborers, at $3 per day each	8,760 00		
			14,600 00	
1887	Third Battery—			
	1 Armorer, at $4 per day	$1,460 00		
	1 Janitor, at $4 per day	1,460 00		
	1 Engineer, at $4 per day	1,460 00		
	1 Assistant Engineer, at $4 per day	1,460 00		
	1 Expert Laborer, at $3 per day	1,095 00		
	3 Laborers, at $3 per day each	3,285 00		
	6 Hostlers, at $3 per day each	6,570 00		
			16,790 00	
1888	Squadron "C"—			
	1 Armorer, at $4 per day	$1,460 00		
	1 Janitor, at $4 per day	1,460 00		
	1 Engineer, at $4 per day	1,460 00		
	1 Assistant Engineer, at $4 per day	1,460 00		
	7 Laborers, at $3 per day each	7,665 00		
	12 Hostlers, at $3 per day each	13,140 00		
			26,645 00	
1889	Second Company, Signal Corps—			
	1 Armorer, at $4 per day	$1,460 00		
	1 Janitor, at $4 per day	1,460 00		
	1 Engineer, at $4 per day	1,460 00		
	1 Assistant Engineer, at $4 per day	1,460 00		
	1 Laborer, at $3 per day	1,095 00		
			6,935 00	
1890	Headquarters, Second Brigade—			
	1 Armorer, at $4 per day		1,460 00	
1891	Second Battalion, Naval Militia—			
	1 Armorer, at $4 per day	$1,460 00		
	1 Janitor, at $4 per day	1,460 00		
	1 Engineer, at $4 per day	1,460 00		
	1 Chief Yeoman, at $4 per day	1,460 00		
	1 Chief Boatswain's Mate, at $3.65 per day	1,332 25		
	1 Assistant Engineer, at $3.65 per day	1,332 25		
	1 Assistant Engineer, at $3.50 per day	1,277 50		
	1 Assistant Engineer, at $3.25 per day	1,186 25		
	1 Chief Gunner's Mate, at $3 per day	1,095 00		
	3 Laborers, at $3 per day each	3,285 00		
	3 Laborers, at $2.75 per day each	3,011 25		
			18,359 50	
1892	Headquarters, Chief of Coast Artillery—			
	1 Armorer, at $4 per day		1,460 00	
				138,444 50

MISCELLANEOUS, KINGS COUNTY.

1893	County Contingent Fund	$5,000 00	
1894	Fees and Expenses of Jurors	100,000 00	
1895	Disbursements and Fees under Section 658, Code of Criminal Procedure	2,500 00	
1896	Law Library in Brooklyn	9,400 00	
1897	Supplies for County Offices and Courts	500 00	
1898	Advertising Official Canvass and Election Notices	6,000 00	
1899	Compensation for Extra Clerks to Board of County Canvassers	2,500 00	
1900	Rent	2,200 00	
1901	Compensation of Stenographer to Grand Jury	4,500 00	
			132,600 00

CHARITABLE INSTITUTIONS, KINGS COUNTY.

Syracuse State Institution for Feeble-Minded Children.

(Chapter 546, Laws of 1896).

1902	For furnishing clothing, etc., for 27 inmates, at $20 each	$540 00	

Institution for the Improved Instruction of Deaf Mutes.

(Chapter 386, Laws of 1864).
(Chapter 725, Laws of 1867).
(Chapter 180, Laws of 1870).
(Chapter 213, Laws of 1875).

1903	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	6,100 00	

New York Institution for the Blind.

(Section 230, Greater New York Charter, as amended by. Chapter 196, Laws of 1899).

1904	For clothing 30 State Pupils, at $50 each per annum	1,500 00	

New York Institution for the Instruction of the Deaf and Dumb.

(Chapter 325, Laws of 1863).
(Chapter 386, Laws of 1864).
(Chapter 725, Laws of 1867).
(Chapter 253, Laws of 1874).
(Chapter 213, Laws of 1875).
(Chapter 36, Laws of 1892).

1905	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	18,800 00	

St. Joseph's Institute for the Improved Instruction of Deaf Mutes.

(Chapter 386, Laws of 1864).
(Chapter 213, Laws of 1875).
(Chapter 378, Laws of 1877).

1906	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	20,400 00	
			47,340 00
	Total, Kings County		1,662,475 47

THE COUNTY OF QUEENS.

1907	For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161, of said chapter	$32,751 94	
1908	For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909	3,694 09	
1909	For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160, and section 279 of chapter 30 of the Consolidated Laws of 1909	6,274 32	
1910	For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909	4,076 70	
1911	For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909	2,308 81	
			$49,105 86

BOARD OF CITY RECORD, QUEENS COUNTY.

Printing, Stationery and Blank Books for County Offices and Courts.

1912	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	$1,400 00	
1913	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements	1,400 00	
1914	Blank Books	1,000 00	
			3,800 00

SUPREME COURT AND COUNTY COURT, QUEENS COUNTY.

1915	Salaries—			
	County Judge	$10,000 00		
	Supreme Court:			
	Chief Clerk	3,000 00		
	Special Deputy Clerks, 2 at $2,500	5,000 00		
	Chief Court Attendant	1,800 00		
	Court Attendants, 7 at $1,500	10,500 00		
	County Court:			
	Chief Clerk	3,000 00		
	Confidential Clerk	2,000 00		
	Stenographer	3,000 00		
	Stenographer to Grand Jury	1,000 00		
	Court Crier	1,800 00		
	Court Interpreters, 2 at $1,800	3,600 00		
	Chief Court Attendant	1,800 00		
	Court Attendants, 4 at $1,500	6,000 00		
			$52,500 00	
1916	Additional Compensation to County Judge for Services in Drawing Jurors		2,500 00	
1917	Court Fund		60,000 00	
1918	Contingencies		100 00	
				115,100 00

SHERIFF, QUEENS COUNTY.

1919	Sheriff's Office, Salaries—			
	Sheriff	$8,000 00		
	Under Sheriff	2,500 00		
	Counsel	2,500 00		
	Deputy Sheriffs, 6 at $1,500	9,000 00		
	Assistant Deputy Sheriffs, 6 at $900	5,400 00		
	Chief Clerk	1,500 00		
	Cashier	1,500 00		
	Auditor	1,500 00		
	Entry Clerk	1,200 00		
	Law Clerk	1,500 00		
	Stenographer	1,200 00		
	Index Clerk	900 00		
	Messenger	900 00		
			$37,600 00	
1920	County Jail, Salaries—			
	Warden	$1,200 00		
	Deputy Warden	1,200 00		
	Orderly	1,300 00		
	Physician	1,200 00		
	Keepers, 9 at $1,000	9,000 00		

County Jail, Salaries—

	Clerks, 2 at $1,000	2,000 00	
	Matron	800 00	
	Assistant Matron	600 00	
	Cook	300 00	
	Assistant Cook	250 00	
	Laundress	250 00	
			18,100 00
1921	General Supplies		22,000 00
1922	Telephone Service		450 00
1923	Contingencies		5,000 00
			83,150 00

SURROGATE'S COURT, QUEENS COUNTY.

1924	Salaries—		
	Surrogate	$5,000 00	
	Clerk of Surrogate's Court	3,000 00	
	Clerk and Stenographer	2,100 00	
	Assistant Clerk	1,500 00	
	Index Clerk	1,500 00	
	Copyist	1,200 00	
	Copyist	720 00	
	Court Attendant	1,500 00	
			$16,520 00
1925	General Supplies		600 00
1926	Telephone Service		300 00
1927	Contingencies		250 00
			17,670 00

COUNTY CLERK, QUEENS COUNTY.

1928	For Payment of Legal Fees		$15,000 00
1929	Repairing and Rebinding Books of Public Record		1,500 00
1930	Recopying and Transcribing Books of Public Record		9,000 00
1931	Recopying and Redrawing Maps		2,000 00
1932	Repairs and Replacements by Contract or Open Order		500 00
1933	Purchase of New Atlas for Queens County		200 00
			28,200 00

DISTRICT ATTORNEY, QUEENS COUNTY.

1934	Salaries—		
	District Attorney	$5,000 00	
	ASSISTANTS, CLERKS, STENOGRAPHERS AND COUNTY DETECTIVE.		
	Assistant District Attorney	$3,000 00	
	Deputy Assistant District Attorneys, 3	7,200 00	
	Chief Clerk	2,400 00	
	Stenographer	1,500 00	
	County Detective	1,500 00	
		15,600 00	
			$20,600 00
1935	Contingencies		7,000 00
1936	General Supplies		200 00
1937	Telephone Service		400 00
			28,200 00

COMMISSIONER OF JURORS, QUEENS COUNTY.

1938	Salaries—		
	Commissioner of Jurors	$3,000 00	
	Assistant Commissioner of Jurors	2,000 00	
	Clerk	1,500 00	
	Clerks, 2 at $1,200	2,400 00	
	Stenographer	600 00	
			$9,500 00
1939	Jury Notice Servers' Fees		2,300 00
1940	General Supplies		500 00
1941	Contingencies		50 00
1942	Telephone Service		100 00
			12,450 00

PUBLIC ADMINISTRATOR, QUEENS COUNTY.

1943	Salary of Public Administrator	1,200 00

MISCELLANEOUS, QUEENS COUNTY.

1944	County Contingent Fund		$4,000 00
1945	Supplies for County Offices		500 00
1946	Advertising Official Canvass and Election Notices		2,000 00
1947	Compensation for Extra Clerks to Board of County Canvassers		750 00
			7,250 00

THE NATIONAL GUARD, QUEENS COUNTY.

ARMORIES AND DRILL ROOM. FOR WAGES OF ARMORERS, JANITORS, ENGINEERS AND LABORERS FOR THE STATE NATIONAL GUARD, AS PROVIDED BY CHAPTER 231 OF THE LAWS OF 1908.

1948	Wages, Company "I," Tenth Regiment—		
	1 Armorer, at $4 per day	$1,460 00	
	1 Engineer, at $4 per day	1,460 00	
	2 Laborers, at $3 per day each	2,190 00	
			5,110 00

CHARITABLE INSTITUTIONS, QUEENS COUNTY.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.

(Chapter 546, Laws of 1896.)

1949	For furnishing clothing, etc., for 3 inmates, at $20 each.	$60 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1950	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum		990 00

NEW YORK INSTITUTION FOR THE BLIND.

(Section 230, Greater New York Charter, as amended by Chapter 196, Laws of 1899.)

1951	For clothing 5 State Pupils, at $50 each per annum		250 00

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.

(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1952	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	1,320 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1953	For support and education of County Pupils, at $300 annum, and for clothing State Pupils, at $30 per annum	2,190 00	
			4,810 00
	Total, Queens County		356,045 86

THE COUNTY OF RICHMOND.

1954	For additional compensation of the Justices of the Supreme Court in the Second Judicial District, in pursuance of sections 76 and 145 of chapter 30 of the Consolidated Laws of 1909, and for the Stenographers, pursuant to subdivision 3, section 161 of said chapter	$7,311 62	
1955	For compensation of the Deputy Clerk and Attendants of the Appellate Division of the Supreme Court in the Second Judicial Department, and for a Case and Consultation Clerk and two Confidential Clerks, in pursuance of sections 101, 102, 105, 110, and subdivision 3 of section 111 of chapter 30 of the Consolidated Laws of 1909	824 68	
1956	For compensation of Confidential Clerks to Justices of the Supreme Court in the Second Judicial District, pursuant to subdivision 2 of section 160, and section 279 of chapter 30 of the Consolidated Laws of 1909.	1,400 69	
1957	For compensation of the Justices of the Supreme Court designated to the Appellate Division of the Second Judicial Department from any district other than the Second Judicial District, pursuant to section 76 of chapter 30 of the Consolidated Laws of 1909	910 09	
1958	For compensation of Confidential Clerks to Justices of the Supreme Court, designated to the Appellate Division of the Second Department, pursuant to sections 103 and 272 of chapter 30 of the Consolidated Laws of 1909	515 43	
			$10,962 51

BOARD OF CITY RECORD, RICHMOND COUNTY.

PRINTING, STATIONERY AND BLANK BOOKS FOR COUNTY OFFICES AND COURTS.

1959	Printing, Lithographing, Engraving or Stamped Forms, including Pamphlets and Printed Blanks	$1,500 00		
1960	Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements	750 00		
1961	Blank Books	1,900 00		
			$4,150 00	
	ARREARAGES.			
1962	Blank Books		300 00	
				4,450 00

SHERIFF, RICHMOND COUNTY.

1963	Salaries and Wages—			
	Sheriff	$6,000 00		
	Jailer	900 00		
	Matrons, 2 at $800	1,600 00		
	Cook	500 00		
	Farmhand	360 00		
	Prison Guards, 3 at $3 per day	3,285 00		
	Court Officers	1,600 00		
			$14,245 00	
1964	General Supplies		5,900 00	
1965	Forage, Shoeing and Boarding Horses		750 00	
1966	Fuel		1,500 00	
1967	Telephone Service		250 00	
1968	Contingencies		850 00	
				23,495 00

COUNTY COURT AND SURROGATE'S COURT, RICHMOND COUNTY.

1969	Salaries—			
	County Judge and Surrogate	$5,000 00		
	Clerk of the Surrogate's Court	3,000 00		
	Court Stenographer	3,000 00		
	Confidential Clerk	1,650 00		
	Clerk in the Surrogate's Office	1,800 00		
	Court Attendant	1,200 00		
			$15,650 00	
1970	Additional Compensation to County Judge for Services in Drawing Jurors		2,500 00	
1971	Telephone Service		250 00	
1972	Contingencies		250 00	
				18,650 00

COUNTY CLERK, RICHMOND COUNTY.

1973	General Administration, Salaries—			
	County Clerk	$5,000 00		
	Deputy County Clerk	2,500 00		
	Court Clerk	1,800 00		
	Assistant Court Clerk	1,500 00		
	Clerks, 3 at $1,200	3,600 00		
	Searcher	1,500 00		
			$15,900 00	
1974	Copying Indices to Lexographical System		7,500 00	
1975	Recopying, Rebinding and Renumbering Old Libers		200 00	
1976	General Supplies		100 00	
1977	Telephone Service		200 00	
1978	Contingencies		50 00	
				23,950 00

DISTRICT ATTORNEY, RICHMOND COUNTY.

1979	Salaries—			
	District Attorney	$4,000 00		
	Assistant District Attorney	2,500 00		
	Stenographer	1,350 00		
	Special Messenger and Subpoena Server	1,000 00		
			$8,850 00	
1980	Contingencies		3,500 00	
				12,350 00

COMMISSIONER OF JURORS, RICHMOND COUNTY.

1981	Salaries—			
	Commissioner	$1,500 00		
	Assistant Commissioner	1,200 00		
	Clerk	1,200 00		
			$3,900 00	
1982	Jury Notice Server's Fees		250 00	
1983	General Supplies		125 00	
1984	Contingencies		125 00	
				4,400 00

MISCELLANEOUS, RICHMOND COUNTY.

1985	County Contingent Fund	$2,000 00	
1986	Fees and Expenses of Jurors in Richmond County	8,000 00	
1987	Disbursements and Fees under Section 658, Code of Criminal Procedure	500 00	
1988	Rent—For payment of rent for property leased for public offices and other purposes of the County of Richmond for which no other provision has been made	25 00	
1989	Supplies for County Offices	100 00	
1990	Advertising Official Canvass and Election Notices	2,000 00	
1991	Compensation for Extra Clerks to Board of County Canvassers	600 00	
			13,225 00

CHARITABLE INSTITUTIONS, RICHMOND COUNTY.

SYRACUSE STATE INSTITUTION FOR FEEBLE-MINDED CHILDREN.

(Chapter 546, Laws of 1896.)

1992	For furnishing clothing, etc., for one inmate, at $20	$20 00	

INSTITUTION FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 180, Laws of 1870.)
(Chapter 213, Laws of 1875.)

1993	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	360 00	

NEW YORK INSTITUTION FOR THE INSTRUCTION OF THE DEAF AND DUMB.

(Chapter 325, Laws of 1863.)
(Chapter 386, Laws of 1864.)
(Chapter 725, Laws of 1867.)
(Chapter 253, Laws of 1874.)
(Chapter 213, Laws of 1875.)
(Chapter 36, Laws of 1892.)

1994	For clothing State Pupils, at $30 per annum	210 00	

ST. JOSEPH'S INSTITUTE FOR THE IMPROVED INSTRUCTION OF DEAF MUTES.

(Chapter 386, Laws of 1864.)
(Chapter 213, Laws of 1875.)
(Chapter 378, Laws of 1877.)

1995	For support and education of County Pupils, at $300 per annum, and for clothing State Pupils, at $30 per annum	990 00	
			1,580 00
	Total, Richmond County		**113,062 51**

THE CITY OF NEW YORK.

1996	Amount of deficiency on January 1, 1909, in the product of taxes theretofore levied, deemed to be uncollectible and not otherwise provided for (Chapter 209, Laws of 1906)	4,000,000 00
	Total	**$163,130,270 37**

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution authorizing the Comptroller to affix to the several appropriation accounts contained in the Budget, code numbers, in the same manner as in the Budget for the year 1909, and to affix supporting schedules and schedules of Salaries and Salaries and Wages.

The following resolution was offered:

Resolved, That the Comptroller be and is hereby authorized, upon the adoption of the Budget for the year 1910 by the Board of Estimate and Apportionment, to affix to the several appropriation accounts contained in said Budget, code numbers in the same manner as that adopted in the Budget for the year 1909, and also to affix to the supporting schedules and schedules of Salaries and Salaries and Wages in said Budget for the year 1910, corresponding code numbers in a similar manner.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Comptroller presented the following resolution, directing the Secretary to forthwith transmit to the Board of Aldermen the Budget of The City of New York for the year 1910:

Resolved, That the Secretary be and he hereby is directed to forthwith transmit to the Board of Aldermen the Budget of The City of New York for the year 1910 for consideration and action thereon, in accordance with the provisions of section 226 of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The Chair presented a communication from the Secretary, 1910 Budget Conference, relative to the revision of departmental estimates for the year 1910, and expressing appreciation of the attitude of the Board in granting a second public hearing on the Budget.

Which was ordered on file.

The Chair announced that all the members of the Board had signed the Budget for the year 1910, said signatures having been affixed at 11.52 o'clock a. m. this day.

The Comptroller presented the following resolution, relative to the appointment of a Committee, consisting of the Comptroller, the President of the Board of Aldermen and a representative of the Mayor, to formulate specifications under which supplies and materials may be most advantageously purchased, etc., and to report to this Board on or before December 15, 1909, such standard specifications as it may be ready to recommend for adoption:

The following was offered:

Whereas, The City of New York, through its various Departments, expends upwards of fifteen million dollars per annum in the purchase of supplies; and

Whereas, Such supplies are purchased by upwards of seventy Purchasing Agents; and

Whereas, Such supplies are bought under specification and conditions so widely different that the City sustains great loss thereby; be it

Resolved, That this Board hereby appoints a Committee consisting of the Comptroller, the President of the Board of Aldermen and a representative of the Mayor to determine in so far as possible the character and probable amount of each class of supplies and materials to be purchased by The City of New York in the year 1910, and formulate specifications under which such supplies and materials may be most advantageously purchased; be it further

Resolved, That this Committee, when appointed, consider first the standardization of specifications relating to those supplies which are bought by The City of New York in the largest quantities, as, for example, fuel and forage; be it further

Resolved, That this Committee report to the Board of Estimate and Apportionment such standard specifications as it may be ready to recommend for adoption on or before December 15, 1909, and shall thereafter continue to report from time to time until their services may be discontinued by this Board.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the Presidents of the Boroughs of Brooklyn, The Bronx, Queens and Richmond and the Acting President of the Borough of Manhattan—16.

The President, Board of Aldermen, moved that when the Board adjourn it adjourn to meet Friday, November 5, 1909, at 10.30 o'clock in the forenoon, which motion was adopted.

The Board adjourned to meet Friday, November 5, 1909, at 10.30 o'clock in the forenoon.

JOSEPH HAAG, Secretary.

METEOROLOGICAL OBSERVATORY OF THE DEPARTMENT OF PARKS.

Abstract of Registers from Self-recording Instruments for the Week Ending November 20, 1909.

Central Park, The City of New York—Latitude, 40° 45′ 58″ N. Longitude, 73° 57′ 58″ W.
Height of Instruments Above the Ground, 53 feet; Above the Sea, 97 feet.

BAROMETER.

DATE. November.	7 a. m. Reduced to Freezing.	2 p. m. Reduced to Freezing.	9 p. m. Reduced to Freezing.	Mean for the Day. Reduced to Freezing.	Maximum. Reduced to Freezing.	Maximum. Time.	Minimum. Reduced to Freezing.	Minimum. Time.
Sunday, 14	30.560	30.500	30.450	30.503	30.580	9 a. m.	30.406	12 p. m.
Monday, 15	30.340	30.190	30.174	30.235	30.406	0 a. m.	30.150	4 p. m.
Tuesday, 16	30.226	30.160	30.010	30.132	30.234	9 a. m.	29.900	12 p. m.
Wednesday, 17	29.630	29.536	29.740	29.635	29.900	0 a. m.	29.536	2 p. m.
Thursday, 18	29.850	29.950	30.116	29.972	30.140	10 p. m.	29.740	0 a. m.
Friday, 19	30.150	30.060	30.050	30.087	30.180	9 a. m.	30.040	12 p. m.
Saturday, 20	29.990	29.890	29.890	29.923	30.040	0 a. m.	29.880	3 p. m.

Mean for the week	30.069	inches.
Maximum " at 9 a. m., November 14	30.580	"
Minimum " at 2 p. m., November 17	29.536	"
Range "	1.044	inch.

THERMOMETERS.

DATE. November.	7 a. m. Dry Bulb.	7 a. m. Wet Bulb.	2 p. m. Dry Bulb.	2 p. m. Wet Bulb.	9 p. m. Dry Bulb.	9 p. m. Wet Bulb.	Mean. Dry Bulb.	Mean. Wet Bulb.	Maximum. Dry Bulb.	Maximum. Time.	Maximum. Wet Bulb.	Maximum. Time.	Minimum. Dry Bulb.	Minimum. Time.	Minimum. Wet Bulb.	Minimum. Time.	Maximum. In Sun.
Sunday, 14	57	55	55	53	53	52	55.0	53.3	60	0 a. m.	58	0 a. m.	53	12 p. m.	52	12 p. m.	58 2 p. m.
Monday, 15	52	50	58	55	57	55	55.6	53.3	59	4 p. m.	57	5 p. m.	52	6 a. m.	50	7 a. m.	82 2 p. m.
Tuesday, 16	47	43	54	50	54	51	51.6	48.0	57	12 p. m.	54	12 p. m.	47	8 a. m.	42	8 a. m.	89 10 a. m.
Wednesday, 17	60	59	57	50	43	39	53.3	49.3	62	10 a. m.	61	10 a. m.	43	12 p. m.	37	12 p. m.	92 2 p. m.
Thursday, 18	37	34	38	35	34	32	36.3	33.6	43	0 a. m.	37	0 a. m.	34	10 p. m.	32	10 p. m.	87 12 m
Friday, 19	37	34	42	36	45	40	41.3	36.6	45	11 p. m.	40	11 p. m.	34	0 a. m.	33	0 a. m.	60 1 p. m.
Saturday, 20	45	41	56	49	53	49	51.3	46.3	58	3 p. m.	53	5 p. m.	44	1 a. m.	39	1 a. m.	90 1 p. m.

	Dry Bulb.		*Wet Bulb.*	
Mean for the week	49.2	degrees	45.8	degrees.
Maximum " at 10 a. m., Nov. 17.	62	" at 10 a. m., November 17	61	"
Minimum " at 10 p. m., Nov. 18.	34	" at 10 p. m., November 18	32	"
Range "	28	"	29	"

WIND.

DATE. November.	Direction. 7 a. m.	Direction. 2 p. m.	Direction. 9 p. m.	Velocity in Miles. 9 p.m. to 7 a.m.	Velocity in Miles. 7 a.m. to 2 p.m.	Velocity in Miles. 2 p.m. to 9 p.m.	Velocity in Miles. Distance for the Day.	Force in Pounds per Square Foot. 7 a.m.	2 p.m.	9 p.m.	Max.	Time.
Sunday, 14	E	SW	SW	35	9	37	81	0	0	0	¼	7.50 p.m.
Monday, 15	SW	SW	SW	87	77	66	230	¼	¾	0	1¼	4.10 a.m.
Tuesday, 16	NW	E	E	66	30	22	118	0	0	0	1	5.00 a.m.
Wednesday, 17	S	W	W	65	84	112	261	¼	4¼	½	6½	3.40 p.m.
Thursday, 18	WNW	W	W	137	132	119	388	¾	7½	0	8¼	2.40 p.m.
Friday, 19	SW	SW	SSW	67	81	74	222	¼	1½	¼	3¼	2.30 p.m.
Saturday, 20	SSW	S	SW	72	51	47	170	0	0	¼	1¼	10.10 p.m.

Distance traveled during the week	1,470 miles.
Maximum force during the week	8¼ pounds.

DATE. November.	Hygrometer. Force of Vapor. 7 a. m.	2 p. m.	9 p. m.	Mean.	Relative Humidity. 7 a. m.	2 p. m.	9 p. m.	Mean.	Clouds. Clear, 0 Overcast, 10. 7 a. m.	2 p. m.	9 p. m.	Rain and Snow. Ozone. Depth of Rain and Snow in Inches. Time of Beginning.	Time of Ending.	Duration. h. m.	Amount of Water. in.	Depth of Snow. in.	0 | 10
Sunday, 14	.407	.376	.375	.386	87	87	93	89	10	10	10	.....	.....	.....	.....	.....	0
Monday, 15	.334	.393	.407	.378	86	81	87	84	10	7 Cir. Cu	0	.....	.....	.....	.....	.....	0
Tuesday, 16	.225	.308	.335	.289	70	74	80	74	2 Cu.	10	10	.....	.....	.....	.....	.....	0
Wedn'sd'y, 17	.487	.268	.186	.313	94	57	67	72	10	0	0	6 a. m. / 10.30 a m	8 a. m. / 11 a. m.	2.00 / .30	.04 / .01	..	3
Thursday, 18	.157	.165	.155	.159	71	72	79	74	8 Cu.	2 Cir.	0	.....	.....	.....	.....	.....	0
Friday, 19	.157	.134	.182	.157	71	50	60	60	10	10	10	8.30 a. m.	10 a. m.	1.30	....	slt.	0
Saturday, 20	.205	.255	.295	.251	68	57	73	66	0	2 Cir.	0	.....	.....	.....	.....	.....	0

Total amount of water for the week	.05	inch.
Duration for the week	4	hrs., 00 mins.

Snow slight.

DATE.			7 a. m.	2 p. m.
Sunday,	Nov.	14	Calm, overcast.	Mild, overcast.
Monday,	"	15	Mild, overcast.	Mild, pleasant.
Tuesday,	"	16	Cool, pleasant, dew.	Calm, overcast.
Wednesday,	"	17	Calm, raining.	Clear, cool.
Thursday,	"	18	Cold, windy.	Cold, windy.
Friday,	"	19	Cold, overcast, snow flurry 8.30 a. m. to 10 a. m.	Raw, overcast.
Saturday,	"	20	Cool, pleasant.	Mild, pleasant.

DANIEL DRAPER, Ph. D., Director.

LAW DEPARTMENT.

REPORT OF THE COMMISSIONER OF JURORS FOR THE QUARTER ENDING SEPTEMBER 30, 1909.

October 1, 1909.

Hon. GEORGE B. McCLELLAN, Mayor:

SIR—I have the honor to submit my report of matters relating to delinquent jurors in the Boroughs of Manhattan and The Bronx, for the quarter ending September 30, 1909, in accordance with the provisions of section 1119 of the Code of Civil Procedure.

I report herewith the number of those persons fined according to the papers transmitted to me by the Commissioner of Jurors since my last report, together with the amount of such fines, the number of those persons proceeded against by me since my last report, the number of persons whose fines have been remitted in whole or in part, the number of persons against whom orders for the enforcement of fines have been made, the number of delinquents upon whom no srvice could be made, the number of cases where no decision has been rendered, the number of cases still pending, the amounts of fines collected during the three months preceding this report, and the disposition of the same.

Number of persons fined according to papers transmitted to me by the Commissioner of Jurors since my last report	319	
Number of cases pending at the date of my last report	42	
Total number of cases to be accounted for		361
Amount of fine in 22 cases	$200 00	
Amount of fine in 27 cases	150 00	
Amount of fine in 11 cases	50 00	
Amount of fine in 301 cases	100 00	
Number of persons proceeded against since my last report	..	
Number of persons whose fine had been remitted	..	
Number of cases where an order for the enforcement of fine was made, in whole or part	..	
Number of delinquents upon whom no service could be made	..	
Number of cases where no decision has been rendered	..	
Number of cases still pending	361	
		361
Appeal from order enforcing fine imposed upon delinquent juror, appeal pending		1

Cases pending are those received during the month of July, and cannot be prosecuted until the courts reconvene this fall.

Amount of Money Collected During Three Months Preceding This Report, and the Disposition of Same.

Received—	
July 26, 1909, Herbert A. Rosenfeld	$60 00
August 3, 1909, Isaac Breakstone	100 00
August 12, 1909, Alfred Ebenstein	10 00
September 13, 1909, Lyman B. Kendall	110 00
	$280 00
Disbursements—	
August 2, 1909, paid to the Commissioner of Jurors	$60 00
August 31, 1909, paid to the Commissioner of Jurors	110 00
September 30, 1909, paid to the Commissioner of Jurors	110 00
	$280 00

In submitting the foregoing, I have the honor to be,

Respectfully

G. L. STERLING, Acting Corporation Counsel.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

New York, July 14, 1909.

In compliance with section 1546 of the Greater New York Charter, the Department of Water Supply, Gas and Electricity makes the following report of its transactions for the week ending July 10, 1909:

Public Moneys Received and Deposited.

BOROUGH OF MANHATTAN.

Receipts for water rents	$147,732 74	
Receipts for penalties on water rents	367 13	
Receipts for permits to tap mains	109 00	
Receipts for meter setting	187 21	
Receipts for repairs, Bureau of Chief Engineer	1 88	
		$148,397 96

BOROUGH OF THE BRONX.

Receipts for water rents	$34,397 82	
Receipts for penalties on water rents	120 25	
Receipts for permits to tap mains	217 75	
Receipts for meter setting	24 14	
		$34,759 96

BOROUGH OF BROOKLYN.

Receipts for water rents	$110,673 28	
Receipts for penalties on water rents	395 49	
Receipts for permits to tap mains	546 00	
Receipts for meter setting	368 50	
Receipts for miscellaneous work	90 82	
		$112,074 09

BOROUGH OF QUEENS.

Receipts for water rents	$4,180 90	
Receipts for penalties on water rents	31 81	
Receipts for permits to tap mains	39 75	
		$4,252 46

BOROUGH OF RICHMOND.

Receipts for water rents	$4,465 52	
Receipts for permits to tap mains	81 00	
Deposited to credit of City Chamberlain for Staten Island Water Supply Company	397 80	
Deposited to credit of City Chamberlain for City of New York	192 30	
		$5,136 62

Work Done on Public Lamps.

Gas Lamps (Welsbach Street Lighting Company)—	
Mantle lamps relighted, Manhattan	7
Mantle lamps discontinued, Manhattan	9
Mantle lamps discontinued, The Bronx	3
Electric Lamps—	
New 450-watt arc lamps installed and lighted by New York Edison Company, The Bronx	1
New 400-watt arc lamp installed and lighted by Bronx Gas and Electric Company, The Bronx	1
Gas Lamp-posts (Consolidated Gas Company), Manhattan—	
Lamp-posts removed	5
Lamp-posts reset	4
Lamp-posts removed at expense of private parties	2
Lamp-posts reset at expense of private parties	2
Lamp-posts straightened	5
Service pipes refitted	3
Stand pipes refitted	2

Gas Lamp-posts (The Bronx)—

Lamp-posts removed (Northern Union Gas Company)	1
Lamp-posts straightened (Northern Union Gas Company)	1
Lamp-posts removed (Central Union Gas Company)	1
Lamp-posts reset to grade (Central Union Gas Company)	1
Lamp-posts straightened (Central Union Gas Company)	3

Changes in the Working Force.

BOROUGH OF MANHATTAN.

Appointed—John D. Schmidt and John P. Pender, Inspectors of Meters and Water Consumption, at $1,000 per annum; Nicholas J. Gorman, Axeman, at $900 per annum; Theodore J. Beliakoff, Telephone Operator, at $900 per annum; one Assistant Foreman, at $3 per day.

Promoted—Arthur E. Fogarty, Axeman to Rodman, increased from $900 to $1,050 per annum.

Increased—John P. Lonergan, Transitman, from $1,500 to $1,800 per annum; John Hart, Inspector of Pipe Laying, Pipes and Hydrants, from $4 per day to $1,800 per annum.

Resigned—Theodore J. Beliakoff, Clerk.

BOROUGH OF BROOKLYN.

Increased—John F. Collins, Clerk, from $1,800 to $2,100 per annum; Charles J. McCarthy, Clerk, from $900 to $1,050 per annum; Edmund J. Mullaly, Clerk, from $750 to $1,050 per annum; Charles A. Dibbins, Clerk, from $600 to $900 per annum; one Tinsmith, from $3.50 to $4 per day; William R. Fleming, Foreman, from $1,500 to $1,800 per annum.

Removed for Lack of Work—Thirteen Laborers.

Deceased—Louis J. Edling, Inspector of Meters and Water Consumption.

BOROUGH OF RICHMOND.

Appointed—Five Laborers, at $2.50 per day.

M. F. LOUGHMAN, Deputy Commissioner.

PERMANENT CENSUS BOARD.

Permanent Census Board of The City of New York,
Office of the Secretary,
New York, November 15, 1909.

The Board met in the Mayor's office, City Hall, November 15, 1909.

Present—William F. Baker, Police Commissioner, William H. Maxwell, City Superintendent of Schools.

On motion, it was

Resolved, First—That Matthew J. Tobin, No. 318 Broadway, Manhattan, be requested to furnish 250,000 additional census cards according to the terms of an estimate earlier furnished by him and that all further printing be obtained by requisition on the Board of City Record.

Second—That the Secretary be authorized to purchase such furniture, filing material, and other office supplies as may be necessary for the proper conduct of the work of the Board.

Third—That the Secretary be authorized to select a Stenographer at $1,200 per annum and four Clerks at salaries of $900 per annum in accordance with the rules of the Municipal Civil Service Commission.

Fourth—That the Secretary be authorized to sign the payrolls as Secretary and as head of Department.

GEORGE H. CHATFIELD, Secretary.

CHANGES IN DEPARTMENTS, ETC.

TENEMENT HOUSE DEPARTMENT.

December 1—The services of Edgar J. Kelly, No. 2156 Prospect avenue, The Bronx, temporary first grade Clerk, terminated at the close of business, Friday, November 26, 1909.

COMMISSIONERS OF ACCOUNTS.

December 1—Transferred from the Department of Water Supply, Gas and Electricity, Bureau of Water Register, Borough of Manhattan, to the office of the Commissioners of Accounts, Leo F. Lacey, Clerk, second grade, $1,050 per annum, to take effect at the beginning of business, December 1, 1909.

AQUEDUCT COMMISSIONERS.

December 1—At a meeting of the Aqueduct Commissioners Thomas W. Cox, who was ordered dropped from the payroll on October 29, 1909, for having been absent from duty, without leave, for a period of five days, was reinstated to his former position of Laborer, pursuant to the Municipal Civil Service rules, such absence having been satisfactorily explained.

BOARD OF WATER SUPPLY.

December 1—

This Board has made the following appointments:

Patrick Smith, Storm King, N. Y., Laborer, $2 per day, November 19, 1909.

Charles J. Johnson, Cornwall, N. Y., Miner, $3 per day, November 18, 1909; 50 cents per day additional when working in shafts.

Domenic Gezzi, Storm King, N. Y., Miner, $3 per day, November 19, 1909; 50 cents per day additional when working in shafts.

Giovanni Gattardi, Storm King, N. Y., Miner, $3 per day, November 20, 1909; 50 cents per day additional when working in shafts.

Fausto Clementel, Storm King, N. Y., Miner, $3 per day, November 20, 1909; 50 cents per day additional when working in shafts.

John J. Lawrence, Cornwall-on-Hudson, N. Y., Mining Blacksmith's Helper, $3 per day, November 23, 1909.

Eulic P. Gomeringer, Signal Corps Detachment, Fort Meyer, Virginia, Sergeant on Aqueduct, $100 per month, November 22, 1909.

CITY COURT.

December 1—Joseph Rollins transferred on December 1 from the position of Interpreter in the First District Municipal Court, salary $1,500, to a similar position in the City Court, salary $2,000.

DEPARTMENT OF FINANCE.

December 3—Resignation of William J. Dohen, No. 8 Dora avenue, Jamaica, temporary Clerk, Bureau for the Collection of Taxes, taking effect November 29, 1909.

DEPARTMENT OF PARKS.

Boroughs of Brooklyn and Queens.

December 2—

Reassigned.

James Russell, No. 180 Johnson street, Brooklyn, Park Laborer.

Dropped for Failure to Report for Work.

Joseph J. McTigue, No. 59 Bradford avenue, Flushing, Park Laborer.

Henry W. Schultz, No. 59 Bolivar street, Brooklyn, Park Laborer.

OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING which the Public Offices in the City are open for business and at which the Courts regularly open and adjourn as well as the places where such offices are kept and such Courts are held, together with the heads of Departments and Courts.

CITY OFFICES.

MAYOR'S OFFICE.

No. 5 City Hall, 9 a. m. to 4 p. m.; Saturday, 9 a. m. to 12 m.
Telephone, 8020 Cortlandt.
GEORGE B. McCLELLAN, Mayor.
Frank M. O'Brien, Secretary.
William A. Willis, Executive Secretary.
James A. Rierdon, Chief Clerk and Bond and Warrant Clerk.

BUREAU OF WEIGHTS AND MEASURES.

Room 7, City Hall, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 8020 Cortlandt.
Patrick Derry, Chief of Bureau.

BUREAU OF LICENSES.

9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 8020 Cortlandt.
Francis V. S. Oliver, Jr., Chief of Bureau.
Principal Office, Room 1, City Hall.
Branch Office, Room 12, Borough Hall, Brooklyn.
Branch Office, Richmond Borough Hall, Room 23, New Brighton, S. I.
Branch Office, Hackett Building, Long Island City, Borough of Queens.

AQUEDUCT COMMISSIONERS.

Room 207, No. 280 Broadway, 5th floor, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone 1942 Worth.
The Mayor, the Comptroller, ex-officio, Commissioners John F. Cowan (President), William H. Ten Eyck, John J. Ryan and John P. Windolph; Harry W. Walker, Secretary; Walter H. Sears, Chief Engineer.

ARMORY BOARD.

Mayor George B. McClellan, the Comptroller, Herman A. Metz, the President of the Board of Aldermen, Patrick F. McGowan, Brigadier-General George Moore Smith, Brigadier-General John G. Eddy, Captain J. W. Miller, the President of the Department of Taxes and Assessments, Lawson Purdy.
Harrie Davis, Secretary, Room 6, Basement, Hall of Records, Chambers and Centre streets.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3900 Worth.

ART COMMISSION.

City Hall, Room 21.
Telephone call, 1197 Cortlandt.
Robert W. de Forest, Trustee Metropolitan Museum of Art, President; Frank D. Millet, Painter, Vice-President; John B. Pine, Secretary; A. Augustus Healy, President of the Brooklyn Institute of Arts and Sciences; George B. McClellan, Mayor of the City of New York; John Bigelow, President of New York Public Library; Arnold W. Brunner, Architect; Charles Howland Russell, Frederic B. Pratt, Herbert Adams, Sculptor.
John Quincy Adams, Assistant Secretary.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

BELLEVUE AND ALLIED HOSPITALS.

Office, Bellevue Hospital, Twenty-sixth street and First avenue.
Telephone, 4400 Madison Square.
Board of Trustees—Dr. John W. Brannan, President; James K. Paulding, Secretary; James A. Farley, Samuel Sachs, Leopold Stern, John G. O'Keeffe, Arden M. Robbins, Robert W. Hebberd, ex-officio.

BOARD OF ALDERMEN.

No. 11 City Hall, 10 a. m. to 4 p. m.; Saturdays 10 a. m. to 12 m.
Telephone, 7560 Cortlandt.
Patrick F. McGowan, President
P. J. Scully, City Clerk.

BOARD OF ASSESSORS.

Office, No. 320 Broadway, 9 a. m. to 4 p. m.; Saturdays, 12 m.
Antonio Zucca.
Paul Weimann.
James H. Kennedy.
William H. Jasper, Secretary.
Telephone, 29, 30 and 31 Worth.

BOARD OF ELECTIONS.

Headquarters General Office, No. 107 West Forty-first Street.
Commissioners—John T. Dooling (President) Charles B. Page (Secretary), James Kane, John E Smith.
Michael T. Daly, Chief Clerk.
Telephone, 2946 Bryant.

BOROUGH OFFICES.

Manhattan.

No. 112 West Forty-second street.
William C. Baxter, Chief Clerk.

The Bronx.

One Hundred and Thirty-eighth street and Mott avenue (Solingen Building).
Cornelius A. Bunner, Chief Clerk.

Brooklyn.

No. 42 Court street (Temple Bar Building).
George Russell, Chief Clerk.

Queens.

No. 46 Jackson avenue, Long Island City;
Carl Voegel, Chief Clerk.

Richmond.

Borough Hall, New Brighton, S. I.
Charles M. Schwalbe, Chief Clerk.
All offices open from 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 m

BOARD OF ESTIMATE AND APPORTIONMENT.

The Mayor, Chairman; the Comptroller, President of the Board of Aldermen, President of the Borough of Manhattan, President of the Borough of Brooklyn, President of the Borough of The Bronx, President of the Borough of Queens, President of the Borough of Richmond.

OFFICE OF THE SECRETARY.

No. 277 Broadway, Room 1406. Telephone, 2280 Worth.
Joseph Haag, Secretary; William M. Lawrence Assistant Secretary. Charles V. Adee, Clerk to Board.

OFFICE OF THE CHIEF ENGINEER.

Nelson P. Lewis, Chief Engineer, No. 277 Broadway, Room 1408. Telephone, 2281 Worth.
Arthur S. Tuttle, Engineer in charge Division of Public Improvements, No. 277 Broadway, Room 1408. Telephone, 2281 Worth.
Harry P. Nichols, Engineer in charge Division of Franchises, No. 277 Broadway, Room 801. Telephone, 2282 Worth.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

BOARD OF EXAMINERS.

Rooms 6027 and 6028 Metropolitan Building, No. 1 Madison avenue, Borough of Manhattan, 9 a. m to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 5840 Gramercy.
Warren A. Conover, Charles Buek, Lewis Harding, Charles G. Smith, Edward F. Croker, William A. Boring and George A. Just, Chairman.
Edward V. Barton, Clerk.
Board meeting every Tuesday at 2 p. m.

BOARD OF PAROLE OF THE NEW YORK CITY REFORMATORY OF MISDEMEANANTS.

Office, No. 148 East Twentieth street.
John J. Barry, Commissioner of Correction, President.
Wm. E. Wyatt, Judge, Special Sessions, First Division.
Robert J. Wilkin, Judge, Special Sessions, Second Division.
Frederick B. House, City Magistrate, First Division.
Edward J. Dooley, City Magistrate, Second Division.
Samuel B. Hamburger, John C. Heintz, Dominick Di Dario, James F. Boyle.
Thomas R. Minnick, Secretary.

BOARD OF REVISION OF ASSESSMENTS.

Herman A. Metz, Comptroller.
Francis K. Pendleton, Corporation Counsel
Lawson Purdy, President of the Department of Taxes and Assessments.
Henry J. Storrs, Chief Clerk, Finance Department, No. 280 Broadway.
Telephone, 1200 Worth.

BOARD OF WATER SUPPLY.

Office, No. 299 Broadway.
John A. Bensel, Charles N. Chadwick, Charles A. Shaw, Commissioners.
Thomas Hassett, Secretary.
J. Waldo Smith, Chief Engineer.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115 Stewart Building, No. 280 Broadway, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 4315 Worth.
John Purroy Mitchel, Henry C. Buncke, Commissioners.

CHANGE OF GRADE DAMAGE COMMISSION.

TWENTY-THIRD AND TWENTY-FOURTH WARDS.

Office of the Commission, Room 219, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City.
Commissioners—William E. Stillings, George C Norton, Lewis A. Abrams.
Lamont McLoughlin, Clerk.
Regular advertised meetings on Monday, Wednesday and Friday of each week at 2 o'clock p. m.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.

City Hall, Rooms 11, 12; 10 a. m. to 4 p. m.; Saturdays, 10 a. m. to 12 m.
Telephone, 7560 Cortlandt.
P. J. Scully, City Clerk and Clerk of the Board of Aldermen.
Joseph F. Prendergast, First Deputy.
John T. Oakley, Chief Clerk of the Board of Aldermen.
Joseph V. Sculley, Clerk, Borough of Brooklyn.
Thomas J. McCabe, Deputy City Clerk, Borough of The Bronx.
William R. Zimmerman, Deputy City Clerk, Borough of Queens.
Joseph F. O'Grady, Deputy City Clerk, Borough of Richmond.

CITY RECORD OFFICE.

BUREAU OF PRINTING, STATIONERY AND BLANK BOOKS.

Supervisor's Office, Park Row Building, No. 21 Park Row. Entrance, Room 807, 9 a. m. to 4 p. m Saturdays, 9 a. m. to 12 m.
Telephone, 1505 and 1506 Cortlandt. Supply Room, No. 2, City Hall.
Patrick J. Tracy, Supervisor; Henry McMillen Deputy Supervisor C. McKemie, Secretary.

COMMISSIONER OF LICENSES.

Office, No. 277 Broadway.
John N. Bogart, Commissioner.
James P. Archibald, Deputy Commissioner.
John J. Caldwell, Secretary.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m to 12 m.
Telephone, 2828 Worth.

COMMISSIONERS OF SINKING FUND.

George B. McClellan, Mayor, Chairman; Herman A. Metz, Comptroller; James J. Martin, Chamberlain; Patrick F. McGowan, President of the Board of Aldermen, and Timothy P. Sullivan, Chairman Finance Committee, Board of Aldermen, Members, N. Taylor Phillips, Deputy Comptroller, Secretary, Office of Secretary, Room 12, Stewart Building.
Telephone, 1200 Worth.

DEPARTMENT OF BRIDGES.

Nos. 13-21 Park Row.
James W. Stevenson, Commissioner.
John H. Little, Deputy Commissioner.
Edgar E. Schiff, Secretary.
Office hours, 9 a. m. to 4 p. m.
Saturdays, 9 a. m. to 12 m.
Telephone, 6080 Cortlandt.

DEPARTMENT OF CORRECTION.

CENTRAL OFFICE.

No. 148 East Twentieth Street. Office hours from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 1047 Gramercy.
John J. Barry, Commissioner.
George W. Meyer, Deputy Commissioner.
John B. Fitzgerald, Secretary.

DEPARTMENT OF DOCKS AND FERRIES.

Pier "A," N. R., Battery place.
Telephone, 300 Rector.
Allen N. Spooner, Commissioner.
Denis A. Judge, Deputy Commissioner
Joseph W. Savage, Secretary.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 12 m.

DEPARTMENT OF EDUCATION.

BOARD OF EDUCATION.

Park avenue and Fifty-ninth street, Borough of Manhattan, 9 a. m. to 5 p. m. (in the month of August, 9 a. m. to 4 p. m.); Saturdays, 9 a. m. to 12 m.
Telephone, 5580 Plaza.
Stated meetings of the Board are held at 4 p. m. on the first Monday in February, the second Wednesday in July, and the second and fourth Wednesdays in every month, except July and August.
Richard B. Aldcroft, Jr.; Nicholas J. Barrett, Charles E. Bruce, M. D.; Joseph E. Cosgrove, Frederic R. Coudert, Francis P. Cunnion, Thomas M. De Laney, Horace E. Dresser, Alexander Ferris, Joseph Nicola Francolini, George J. Gillespie, John Greene, Lewis Haase, Robert L. Harrison, Louis Haupt, M. D.; Thomas J. Higgins, James P. Holland, Arthur Hollick, Hugo Kanzler, Max Katzenberg, Edward Lazansky, Miss Olivia Leventritt, Alrick H. Man, Mitchell May, Robert E. McCafferty, Dennis J. McDonald, M. D.; Ralph McKee, Frank W. Meyer, Antonio Pisani, M. D.; Henry H. Sherman, Arthur S. Somers, Abraham Stern, M. Samuel Stern, Cornelius J. Sullivan, James E. Sullivan, Michael J. Sullivan, Bernard

Suydam, Rupert B. Thomas, John R Thompson, Mrs. Christine Towns, George A. Vandenhoff, John Whalen, Frank D. Wilsey, George W. Wingate, Egerton L. Winthrop, Jr., members of the Board. (One vacancy.)

Egerton L. Winthrop, Jr., President.
John Greene, Vice-President.
A. Emerson Palmer, Secretary.
Fred H. Johnson, Assistant Secretary.
C. B. J. Snyder, Superintendent of School Buildings.
Patrick Jones, Superintendent of School Supplies.
Henry R. M. Cook, Auditor.
Thomas A. Dillon, Chief Clerk.
Henry M. Leipziger, Supervisor of Lectures.
Claude G. Leland, Superintendent of Libraries.
A. J. Maguire, Supervisor of Janitors.

BOARD OF SUPERINTENDENTS.

William H. Maxwell, City Superintendent of Schools, and Andrew W. Edson, John H. Haaren, Clarence E. Meleney, Thomas S. O'Brien, Edward B. Shallow, Edward L. Stevens, Gustave Straubenmüller, John H. Walsh, Associate City Superintendents.

DISTRICT SUPERINTENDENTS.

Darwin L. Bardwell, William A. Campbell, John J. Chickering, John W. Davis, John Dwyer. James M. Edsall, Matthew J. Elgas, William L. Ettinger, Cornelius D. Franklin, John Griffin, M. D.; John L. N. Hunt. Henry W. Jameson. James Lee, Charles W. Lyon, James J. McCabe, William J. O'Shea, Julia Richman, Alfred T. Schauffler, Albert Shiels, Edgar Dubs Shimer, Seth T. Stewart, Edward W. Stitt. Grace C. Strachan, Joseph S. Taylor, Joseph H. Wade, Evangeline E. Whitney.

BOARD OF EXAMINERS.

William H. Maxwell, City Superintendent of Schools, and James C. Byrnes, Walter L. Hervey. Jerome A. O'Connell, George J. Smith, Examiners,

DEPARTMENT OF FINANCE.

Stewart Building, Chambers street and Broadway, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 1200 Worth.
Herman A. Metz, Comptroller.
John H. McCooey and N. Taylor Phillips, Deputy Comptrollers.
Hubert L. Smith, Assistant Deputy Comptroller.
Paul Loeser, Secretary to Comptroller.

MAIN DIVISION.

H. J. Storrs, Chief Clerk, Room 11.

BOOKKEEPING DIVISION.

Frank W. Smith, Chief Accountant and Bookkeeper, Room 8.

AWARDS DIVISION.

Joseph R. Kenny Bookkeeper in Charge, Room 1

CONTRACT DIVISION.

John H. Andrews, Clerk in Charge, Room 86.

STOCK AND BOND DIVISION.

James J. Sullivan, Chief Stock and Bond Clerk, Room 85.

BUREAU OF AUDIT—MAIN DIVISION.

P. H. Quinn, Chief Auditor of Accounts, Room 27

LAW AND ADJUSTMENT DIVISION.

Jeremiah T. Mahoney, Auditor of Accounts, Room 185.

BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS.

Charles S. Hervey, Supervising Statistician and Examiner, Room 180.

CHARITABLE INSTITUTIONS DIVISION.

Daniel C. Potter, Chief Examiner of Accounts of Institutions, Room 38.

OFFICE OF THE CITY PAYMASTER.

No. 83 Chambers street and No. 65 Reade street
John H. Timmerman, City Paymaster.

ENGINEERING DIVISION.

Stewart Building, Chambers street and Broadway.
Chandler Withington, Chief Engineer, Room 55.

DIVISION OF INSPECTION.

William M. Hoge, Auditor of Accounts in Charge, Room 39.

DIVISION OF REAL ESTATE.

Mortimer J. Brown, Appraiser of Real Estate Rooms 101, 103 and 105.

BUREAU FOR THE COLLECTION OF TAXES.

Borough of Manhattan—Stewart Building, Room O.
David E. Austen, Receiver of Taxes.
John J. McDonough and William H. Loughran, Deputy Receivers of Taxes.
Borough of The Bronx—Municipal Building, Third and Tremont avenues.
John B. Underhill and Stephen A. Nugent, Deputy Receivers of Taxes.
Borough of Brooklyn—Municipal Building, Rooms 2-8.
Thomas J. Drennan and William Gallagher, Deputy Receivers of Taxes.
Borough of Queens—Hackett Building, Jackson avenue and Fifth street, Long Island City.
George H. Creed and Mason O. Smedley, Deputy Receivers of Taxes.
Borough of Richmond—Borough Hall, St. George New Brighton.
John De Morgan and F. Wilsey Owen, Deputy Receivers of Taxes.

BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS.

Borough of Manhattan, Stewart Building, Room 1.
Daniel Moynahan, Collector of Assessments and Arrears.
Richard E. Weldon, Deputy Collector of Assessments and Arrears.
Borough of The Bronx—Municipal Building, Rooms 1-3.
James J. Donovan, Jr., Deputy Collector of Assessments and Arrears.
Borough of Brooklyn—Mechanics' Bank Building, corner Court and Montague streets.
John M. Gray, Deputy Collector of Assessments and Arrears.
Borough of Queens—Hackett Building, Jackson avenue and Fifth street, Long Island City.
Thomas A. Healy, Deputy Collector of Assessments and Arrears.
Borough of Richmond—St. George, New Brighton
John J. McGann, Deputy Collector of Assessments and Arrears.

BUREAU FOR THE COLLECTION OF CITY REVENUE AND OF MARKETS.

Stewart Building, Chambers street and Broadway Room 141.
Peter Aitken, Collector of City Revenue and Superintendent of Markets.
David O'Brien, Deputy Collector of City Revenue.

BUREAU FOR THE EXAMINATION OF CLAIMS.

Frank J. Prial, Chief Examiner. Room 181.

BUREAU OF THE CITY CHAMBERLAIN.

Stewart Building, Chambers street and Broadway Rooms 63 to 67.
James J. Martin, City Chamberlain.
Henry J. Walsh, Deputy Chamberlain.
Telephone, 4270 Worth.

DEPARTMENT OF HEALTH.

Southwest corner of Fifty-fifth street and Sixth avenue, Borough of Manhattan, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Burial Permit and Contagious Disease offices always open.
Telephone, 4900 Columbus.
Thomas Darlington, M. D., Commissioner of Health and President.
Alvah H. Doty, M. D.; William F. Baker, Commissioners.
Walter Bensel, M. D., Sanitary Superintendent.
Eugene W. Scheffer, Secretary.
William H. Guilfoy, M. D., Registrar of Records.

Borough of Manhattan.

Traverse R. Maxfield, M. D., Assistant Sanitary Superintendent; George A. Roberts, Assistant Chief Clerk.
Charles J. Burke, M. D., Assistant Registrar of Records.

Borough of The Bronx, No. 3731 Third avenue.

Alonzo Blauvelt, M. D., Acting Assistant Sanitary Superintendent; Ambrose Lee, Jr., Assistant Chief Clerk; Arthur J. O'Leary, M. D., Assistant Registrar of Records.

Borough of Brooklyn, Nos. 38 and 40 Clinton street.

Alonzo Blauvelt, M. D., Assistant Sanitary Superintendent; Alfred T. Metcalfe, Assistant Chief Clerk; S. J. Byrne, M. D., Assistant Registrar of Records.

Borough of Queens, Nos. 372 and 374 Fulton street Jamaica.

John H. Barry, M. D., Assistant Sanitary Superintendent; George R. Crowly, Assistant Chief Clerk; Robert Campbell, M. D., Assistant Registrar of Records.

Borough of Richmond, Nos. 54 and 56 Water street Stapleton, Staten Island.

John T. Sprague, M. D., Assistant Sanitary Superintendent; Charles E. Hoyer, Assistant Chief Clerk, J. Walter Wood, M. D., Assistant Registrar of Records.

DEPARTMENT OF PARKS.

Henry Smith, Commissioner of Parks for the Boroughs of Manhattan and Richmond, and President Park Board.
William J. Fransioli, Secretary.
Offices, Arsenal, Central Park.
Telephone, 201 Plaza.
Michael J. Kennedy, Commissioner of Parks for the Boroughs of Brooklyn and Queens.
Offices, Litchfield Mansion, Prospect Park, Brooklyn.
Telephone, 2300 South.
Joseph I. Berry, Commissioner of Parks for the Borough of The Bronx.
Office, Zbrowski Mansion, Claremont Park.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 2640 Tremont.

PERMANENT CENSUS BOARD.

Hall of Board of Education, No. 500 Park avenue, third floor. Office honrs, 9 a. m. to 5 p. m.
The Mayor, City Superintendent of Schools and Police Commissioner. George H. Chatfield, Secretary.

DEPARTMENT OF PUBLIC CHARITIES.

PRINCIPAL OFFICE.

Foot of East Twenty-sixth street, 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 3350 Madison Square.
Robert W. Hebberd, Commissioner.
Richard C. Baker, First Deputy Commissioner.
Thomas W. Hynes, Second Deputy Commissioner for Brooklyn and Queens, Nos. 327 to 331 Schermerhorn street, Brooklyn. Telephone, 2977 Main.
J. McKee Borden, Secretary.
Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 a. m to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Bureau of Dependent Adults, foot of East Twenty-sixth street. Office hours, 8.30 a. m. to 4 p. m.
The Children's Bureau, No. 66 Third avenue. Office hours, 8.30 a. m. to 4 p. m
Jeremiah Connelly, Superintendent for Richmond Borough, Borough Hall, St. George, Staten Island.
Telephone, 1000 Tompkinsville.

DEPARTMENT OF STREET CLEANING.

Nos. 13 to 21 Park row, 9 a. m. to 4 p. m., Saturdays, 9 a. m. to 12 m.
Telephone, 3863 Cortlandt.
William H. Edwards, Commissioner.
James J. Hogan, Deputy Commissioner, Borough of Manhattan.
Owen J. Murphy, Deputy Commissioner, Borough of Brooklyn.
Julian Scott, Deputy Commissioner, Borough of the Bronx.
John J. O'Brien, Chief Clerk.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Hall of Records, corner of Chambers and Centre streets. Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Commissioners—Lawson Purdy, President; James H. Tully, Charles Putzel, Hugh Hastings, Charles J. McCormack, John J. Halleran.
Telephone, 3900 Worth.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Nos. 13 to 21 Park Row, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephones, Manhattan, 8520 Cortlandt; Brooklyn, 3980 Main; Queens, 439 Greenpoint; Richmond, 94 Tompkinsville; Bronx, 62 Tremont.
John H. O'Brien, Commissioner.
M. F. Loughman, Deputy Commissioner.
I. M. de Varona, Chief Engineer.
Hubert S. Wynkoop, Electrical Engineer.
Michael C. Padden, Water Register, Manhattan
William A. Hawley, Secretary to Commissioner.
William C. Cozier, Deputy Commissioner, Borough of Brooklyn, Municipal Building, Brooklyn.
William R. McGuire, Water Register, Brooklyn.
Charles C. Marrin, Deputy Commissioner, Borough of The Bronx, Crotona Park Building, One Hundred and Seventy-seventh street and Third avenue.
Thomas M. Lynch, Water Register, The Bronx.
Charles C. Wissel, Deputy Commissioner, Borough of Queens, Hackett Building, Long Island City.
John E. Bowe, Deputy Commissioner, Borough of Richmond, Municipal Building, St. George.

EXAMINING BOARD OF PLUMBERS.

Bartholomew F. Donohoe, President; John J. Moore, Secretary; John J. Dunn, Treasurer; ex officio, Horace Loomis and Matthew E. Healy.
Rooms Nos. 14, 15 and 16 Aldrich Building, Nos. 149 and 151 Church street.
Office open during business hours every day in the year (except legal holidays). Examinations are held on Monday, Wednesday and Friday after 1 p. m.

FIRE DEPARTMENT.

Office hours for all, except where otherwise noted from 9 a. m. to 4 p. m.; Saturdays, 12 m.

HEADQUARTERS.

Nos. 157 and 159 East Sixty-seventh street, Manhattan
Telephone, 640 Plaza, Manhattan 2653 Main, Brooklyn.
Nicholas J. Hayes, Commissioner.
P. A. Whitney, Deputy Commissioner.
Charles C. Wise, Deputy Commissioner, Boroughs of Brooklyn and Queens.
William A. Larney, Secretary; Mark Levy, Secretary to the Commissioner; George F. Dobson, Jr., Secretary to the Deputy Commissioner, Boroughs of Brooklyn and Queens.
Edward F. Croker, Chief of Department.
Thomas Lally, Deputy Chief of Department in charge, Boroughs of Brooklyn and Queens.
Joseph L. Burke, Inspector of Combustibles, Nos. 157 and 159 East Sixty-seventh street, Manhattan. Telephone, 640 Plaza.
Peter Seery, Fire Marshal, Boroughs of Manhattan, The Bronx and Richmond.
William L. Beers, Fire Marshal, Boroughs of Brooklyn and Queens.
Andrew P. Martin, Chief Inspector, Fire Alarm Telegraph Bureau, Boroughs of Manhattan, The Bronx and Richmond.
Timothy S. Mahoney, in charge Telegraph Bureau, Boroughs of Brooklyn and Queens.
William T. Beggin, Chief of Battalion in charge Bureau of Violations and Auxiliary Fire Appliances, Boroughs of Manhattan, The Bronx and Richmond Nos 157 and 159 East Sixty-seventh street, Manhattan. Brooklyn and Queens, Nos. 365 and 367 Jay street, Brooklyn.
Central office open at all hours.

LAW DEPARTMENT.

OFFICE OF CORPORATION COUNSEL.

Hall of Records, Chambers and Centre streets, 6th, 7th and 8th floors, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3900 Worth.
Francis K. Pendleton, Corporation Counsel.
Assistants—Theodore Connoly, George L. Sterling, Charles D. Olendorf, William P. Burr, R. Percy Chittenden, David Rumsey, William Beers Crowell, John L. O'Brien, Terence Farley, Edward J McGoldrick, Cornelius F. Collins, John F. O'Brien. Edward S. Malone, Edwin J. Freedman, Curtis A. Peters, Louis H. Hahlo, Stephen O'Brien, Frank B. Pierce, Charles A. O'Neil, Richard H. Mitchell, John Widdecombe, Joel J. Squier, Arthur Sweeny, William H. King, George P. Nicholson, George Harold Folwell, Hartord P. Walker, Alfred W. Booraem, J. Gabriel Britt, Francis J. Byrne, Francis Martin, Charles McIntyre, Clarence L. Barber Solon Berrick, James P. O'Connor, William H. Jackson, Edward Maxson, Elliott S. Benedict, Isaac Phillips, Edward A. McShane, Eugene Fay, Ricardc M. DeAcosta, Francis X. McQuade, Raymond D Fosdick, John M. Barrett, I. Townsend Burden, Jr.
Secretary to the Corporation Counsel—Edmund Kirby.
Chief Clerk—Andrew T. Campbell.

BROOKLYN OFFICE.

Borough Hall, 2d floor, 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 2948 Main.
James D. Bell, Assistant in charge.

BUREAU OF STREET OPENINGS.

No. 90 West Broadway, 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 8190 Cortland.
John P. Dunn, Assistant in charge.

BUREAU FOR THE RECOVERY OF PENALTIES.

No. 119 Nassau street, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 4526 Cortland.
Herman Stiefel, Assistant in charge.

BUREAU FOR THE COLLECTION OF ARREARS OF PERSONAL TAXES.

No. 280 Broadway, 5th floor. Office hours for public, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 4585 Worth.
Geo. O'Reilly, Assistant in charge.

TENEMENT HOUSE BUREAU AND BUREAU OF BUILDINGS.

No. 44 East Twenty-third street, 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 1961 Gramercy.
John P. O'Brien, Assistant in charge.

METROPOLITAN SEWERAGE COMMISSION.

Office, No. 17 Battery place. George A. Soper, Ph. D., President; James H. Fuertes, Secretary; H. de B. Parsons, Charles Sooysmith, Linsly R. Williams, M. D.
Telephone, 1694 Rector.

MUNICIPAL CIVIL SERVICE COMMISSION.

No. 299 Broadway, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Frank L. Polk, R. Ross Appleton, Arthur J. O'Keeffe.
Frank A. Spencer, Secretary.

Labor Bureau.

Nos. 54-60 Lafayette street.
Telephone, 2140 Worth.

MUNICIPAL EXPLOSIVES COMMISSION.

Nos 157 and 159 East Sixty-seventh street, Headquarters Fire Department.
Patrick A. Whitney, Deputy Fire Commissioner and Chairman; William Montgomery, John Sherry, C. Andrade, Jr., Abram A. Breneman.
Telephone, 640 Plaza.
Franz S. Wolf, Secretary, Nos. 365-367 Jay street, Brooklyn.
Stated meeting, Friday of each week, at 3 p. m.
Telephone, 3520 Main.

POLICE DEPARTMENT.

CENTRAL OFFICE.

No. 300 Mulberry street, 9 a. m to 4 p. m.; Saturdays, 9 a m. to 12 m.
Telephone, 3100 Spring.
William F. Baker, Commissioner.
Frederick H. Bugher, First Deputy Commissioner.
Charles W. Kirby, Second Deputy Commissioner.
Josiah A. Stover, Third Deputy Commissioner.
Alfred W. Booraem, Fourth Deputy Commissioner.
William H. Kipp, Chief Clerk.

PUBLIC SERVICE COMMISSION.

The Public Service Commission for the First District, Tribune Building, No. 154 Nassau street, Manhattan.
Office hours, 8 a. m. to 11 p. m., every day in the year, including holidays and Sundays.
Stated public meetings of the Commission, Tuesdays and Fridays at 11.30 a. m. in the Public Hearing Room of the Commission, third floor of the Tribune Building, unless otherwise ordered.
Commissioners—William R. Willcox, Chairman; William McCarroll, Edward M. Bassett, Milo R Maltbie, John E. Eustis. Counsel, George S. Coleman. Secretary, Travis H. Whitney.
Telephone, 4150 Beekman.

TENEMENT HOUSE DEPARTMENT.

Manhattan Office, No. 44 East Twenty-third street.
Telephone, 5331 Gramercy.
Edmond J. Butler, Commissioner.
Wm. H. Abbott, Jr., First Deputy Commissioner.
Brooklyn Office (Boroughs of Brooklyn, Queens and Richmond), Temple Bar Building, No. 44 Court street.
Telephone, 3825 Main.
John McKeown, Second Deputy Commissioner.
Bronx Office, Nos. 2804, 2806 and 2808 Third Avenue.
Telephone, 967 Melrose.
Office hours, 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 m.

BOROUGH OFFICES.

BOROUGH OF THE BRONX.

Office of the President, corner Third avenue and One Hundred and Seventy-seventh street; 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
John F. Murray, President.
Henry A. Gumbleton, Secretary.
——— ———, Commissioner of Public Works.
John A. Hawkins, Assistant Commissioner of Public Works.
Thomas H. O'Neil, Superintendent of Sewers.
Samuel C. Thompson, Engineer of Highways.
Patrick J. Reville, Superintendent of Buildings.
Peter J. Stumpf, Superintendent of Highways.
Albert H. Liebenau, Superintendent of Public Buildings and Offices.
Telephone, 2680 Tremont.

BOROUGH OF BROOKLYN.

President's Office, Nos. 15 and 16 Borough Hall, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Bird S. Coler, President.
Charles Frederick Adams, Secretary.
John A. Heffernan, Private Secretary.
Thomas R. Farrell, Commissioner of Public Works.
James M. Power, Secretary to Commissioner.
Dennis J. Donovan, Superintendent of Buildings.
James Dunne, Superintendent of the Bureau of Sewers.
Joseph M. Lawrence, Superintendent of the Bureau of Public Buildings and Offices.
Patrick F. Lynch, Superintendent of Highways.

BOROUGH OF MANHATTAN.

Office of the President, Nos. 14, 15 and 16 City Hall, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
John F. Ahearn, President.
Bernard Downing, Secretary.
John Cloughen, Commissioner of Public Works.
James J. Hagan, Assistant Commissioner of Public Works.
George F. Scannell, Superintendent of Highways
Edward S. Murphy, Superintendent of Buildings.
Frank J. Goodwin, Superintendent of Sewers.
John R. Voorhis, Superintendent of Public Buildings and Offices. Telephone, 6725 Cortlandt.

BOROUGH OF QUEENS.

President's Office, Borough Hall, Jackson avenue and Fifth street, Long Island City; 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m.
Lawrence Gresser, President.
John M. Cragen, Secretary.
Joseph Sullivan, Commissioner of Public Works.
Harry Sutphin, Assistant Commissioner of Public Works.
Patrick E. Leahy, Superintendent of Highways.
Carl Berger, Superintendent of Buildings.
Cornelius Burke, Superintendent of Sewers.
Arrow C. Hankins, Superintendent of Street Cleaning.
Edward F. Kelly, Superintendent of Public Buildings and Offices.
Telephone 1900 Greenpoint.

BOROUGH OF RICHMOND.

President's Office, New Brighton, Staten Island.
George Cromwell, President.
Maybury Fleming, Secretary.
Louis Lincoln Tribus, Consulting Engineer and Acting Commissioner of Public Works.
William R. Hillyer, Assistant Commissioner of Public Works, Bureau of Engineering—Topography.
Theodore S. Oxholm, Engineer in charge, Bureau of Engineering—Construction.
John Seaton, Superintendent of Buildings.
H. F. Buel, Superintendent of Highways.
John T. Fetherston, Assistant Engineer and Acting Superintendent of Street Cleaning.
Ernest H. Seehusen, Superintendent of Sewers.
John Timlin, Jr., Superintendent of Public Buildings and Offices.
Offices—Borough Hall, New Brighton, N. Y., 9 a. m. to 5 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 1000 Tompkinsville.

CORONERS.

Borough of The Bronx—Corner of Third avenue and Tremont avenue—Telephone, 1250 Tremont and 1402 Tremont.
Robert F. McDonald, A. F. Schwannecke.
William T. Austin, Chief Clerk
Borough of Brooklyn—Office, Rooms 1 and 3 Municipal Building, Telephone, 4004 Main and 4005 Main.
Henry J. Brewer, M. D., John F. Kennedy.
Joseph McGuinness, Chief Clerk.
Open all hours of the day and night.
Borough of Manhattan—Office, Criminal Courts Building, Centre and White streets. Open at all times of the day and night.
Coroners: Julius Harburger, Peter P. Acritelli, George F. Shrady, Jr., Peter Dooley.
Julius Harburger, President Board of Coroners.
Jacob E. Bausch, Chief Clerk.
Telephones. 1094, 5057, 5058 Franklin.
Borough of Queens—Office, Borough Hall, Fulton street, Jamaica, L. I.
Samuel D. Nutt, Alfred S. Ambler.
Martin Mager, Jr., Chief Clerk.
Office hours, from 9 a. m. to 10 p. m.
Borough of Richmond—No. 44 Second street, New Brighton. Open for the transaction of business all hours of the day and night.
Matthew J. Cahill.
Telephone, 7 Tompkinsville.

COUNTY OFFICES.

NEW YORK COUNTY.

COMMISSIONER OF JURORS.

Room 127 Stewart Building, Chambers street and Broadway, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Thomas Allison, Commissioner.
Frederick P. Simpson, Assistant Commissioner.
Telephone, 241 Worth.

COMMISSIONER OF RECORDS.

Office, Hall of Records.
William S. Andrews, Commissioner
James O. Farrell, Deputy Commissioner.
Telephone, 3900 Worth.
Office hours, 9 a. m to 4 p. m.; Saturdays, 9 a. m. to 12 m.

COUNTY CLERK.

Nos. 5, 8, 9, 10 and 11 New County Court-house
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Peter J. Dooling, County Clerk.
John F. Curry, Deputy.
Joseph J. Glennen, Secretary.
Telephone, 870 Cortlandt.

DISTRICT ATTORNEY.

Building for Criminal Courts, Franklin and Centre streets.
Office hours from 9 a. m. to 5 p. m., Saturdays 9 a. m. to 12 m.
Wm. Travers Jerome, District Attorney.
John A. Henneberry, Chief Clerk.
Telephone, 2304 Franklin.

PUBLIC ADMINISTRATOR.

No. 119 Nassau street, 9 a. m. to 4 p. m.; Saturday 9 a. m. to 12 m.
William M. Hoes, Public Administrator.
Telephone, 6376 Cortlandt.

REGISTER.

Hall of Records. Office hours, from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. During the months of July and August the hours are from 9 a. m. to 2 p. m.
Frank Gass, Register.
William H. Sinnott, Deputy Register.
Telephone, 3900 Worth.

SHERIFF.

No. 299 Broadway, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Except during July and August, 9 a.m. to 2 p.m.; Saturdays, 9 a. m. to 12 m
Thomas F. Foley, Sheriff.
John F. Gilchrist, Under Sheriff
Telephone, 4984 Worth.

SURROGATE.

Hall of Records. Court open from 9 a. m. to 4 p. m., except Saturday when it closes at 12 m. During the months of July and August the hours are from 9 a. m. to 2 p. m.
Abner C. Thomas and John P. Cohalan, Surrogates; William V. Leary, Chief Clerk.

KINGS COUNTY.

COMMISSIONER OF JURORS.

5 County Court-house.
Jacob Brenner, Commissioner.
Jacob A. Livingston, Deputy Commissioner.
Office hours from 9 a. m. to 4 p. m.; Saturdays, from 9 a. m. to 12 m.
Office hours during July and August, 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 1454 Main

COMMISSIONER OF RECORDS.

Hall of Records.
Office hours, 9 a. m. to 4 p. m., excepting months of July and August, then 9 a. m. to 2 p. m., Saturdays 9 a. m. to 12 m.
Lewis M. Swasey, Commissioner.
D. H. Ralston, Deputy Commissioner.
Telephone. 1114 Main.
Telephone, 1082 Main.

COUNTY CLERK.

Hall of Records, Brooklyn. Office hours, 9 a. m to 4 p. m.; during months of July and August, 9 a.m. to 2 p. m.; Saturdays, 9 a. m. to 12 m.
Frank Ehlers, County Clerk.
Robert A. Sharkey, Deputy County Clerk.
Telephone call, 4930 Main.

COUNTY COURT.

County Court-house, Brooklyn, Rooms, 10, 17, 18, 22 and 23. Court opens at 10 a. m. daily and sits until business is completed. Part I., Room No. 23; Part II., Room No. 10, Court-house. Clerk's Office, Rooms 17, 18 and 22, open daily from 9 a. m. to 4 p. m.; Saturdays, 12 m.
Norman S. Dike and Lewis L. Fawcett, County Judges.
Charles S. Devoy, Chief Clerk.
Telephone, 4154 and 4155 Main.

DISTRICT ATTORNEY.

Office, County Court-house, Borough of Brooklyn. Hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
John F. Clarke, District Attorney.
Telephone number, 2955-6-7-Main.

PUBLIC ADMINISTRATOR.

No. 44 Court street (Temple Bar), Brooklyn, 9 a. m. to 5 p. m.
Charles E. Teale, Public Administrator.
Telephone, 2840 Main.

REGISTER.

Hall of Records. Office hours, 9 a. m. to 4 p. m., excepting months of July and August; then from 9 a. m. to 2 p. m., provided for by statute. Saturdays, 9 a. m. to 12 m.
William A. Prendergast, Register.
Frederick H. E. Ebstein, Deputy Register.
Telephone, 2830 Main.

SHERIFF.

County Court-house, Brooklyn, N. Y.
9 a. m. to 4 p. m.; Saturdays, 12 m.
Alfred T. Hobley, Sheriff.
James P. Connell, Under Sheriff.
Telephone, 6845, 6846, 6847, Main.

SURROGATE.

Hall of Records, Brooklyn, N. Y.
Herbert T. Ketcham, Surrogate.
Edward J. Bergen, Chief Clerk and Clerk of the Surrogate's Court
Court opens at 10 a. m. Office hours, 9 a. m. to p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3954 Main.

QUEENS COUNTY.

COMMISSIONER OF JURORS.

Office hours, 9 a. m. to 4 p. m.; July and August, 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m. Queens County Court-house, Long Island City.
John P. Balbert, Commissioner of Jurors.
Telephone, 455 Greenpoint.

COUNTY CLERK.

No. 364 Fulton street, Jamaica, Fourth Ward Borough of Queens, City of New York.
Office open, 9 a. m. to 4 p. m.; Saturday, 9 a. m. to 12 m.
John Niederstein, County Clerk.
Frank C. Klingenbeck, Secretary.
Henry Walter, Jr., Deputy County Clerk.
Telephone, 151 Jamaica

COUNTY COURT.

Temporary County Court-house, Long Island City
County Court opens at 10 a. m. Trial Terms begin first Monday of each month, except July, August and September. Special Terms each Saturday, except during August and first Saturday of September.
County Judge's office always open at No. 336 Fulton street, Jamaica, N. Y.
Burt J. Humphrey, County Judge.
Telephone, 286 Jamaica.

DISTRICT ATTORNEY.

Office, Queens County Court-house, Long Island City, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Frederick G. De Witt, District Attorney.
Telephone, 39 Greenpoint.

PUBLIC ADMINISTRATOR.

No. 17 Cook avenue, Elmhurst.
John T. Robinson, Public Administrator, County of Queens.
Telephone, 335 Newtown.

SHERIFF.

County Court-house, Long Island City. 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Herbert S. Harvey, Sheriff.
John M. Phillips, Under Sheriff.
Telephone, 43 Greenpoint (office).
Telephone, 372 Greenpoint.

SURROGATE.

Daniel Noble, Surrogate.
Office, No. 364 Fulton street, Jamaica.
Except on Sundays, holidays and half holidays, the office is open from 9 a. m. to 4 p. m.; Saturdays, from 9 a. m. to 12 m.
The calendar is called on Tuesday of each week at 10 a. m., except during the month of August.
Telephone, 397 Jamaica.

RICHMOND COUNTY.

COMMISSIONER OF JURORS.

Village Hall, Stapleton.
Charles J. Kullman, Commissioner.
Office open from 9 a. m. until 4 p. m.; Saturdays, from 9 a. m. to 12 m.
Telephone, 81 Tompkinsville.

COUNTY CLERK.

County Office Building, Richmond, S. I., 9 a. m. to 4 p. m.
C. L. Bostwick, County Clerk.
County Court-house, Richmond, S. I., 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 28 New Dorp.

COUNTY JUDGE AND SURROGATE.

Terms of Court, Richmond County, 1909.
County Courts—Stephen D. Stephens, County Judge.
First Monday of June, Grand and Trial Jury.
Second Monday of November, Grand and Trial Jury
Fourth Wednesday of January, without a Jury.
Fourth Wednesday of February, without a Jury.
Fourth Wednesday of March, without a Jury.
Fourth Wednesday of April, without a Jury.
Fourth Wednesday of July, without a Jury.
Fourth Wednesday of September, without a Jury.
Fourth Wednesday of October, without a Jury.
Fourth Wednesday of December, without a Jury.
Surrogate's Court—Stephen D. Stephens, Surrogate.
Mondays, at the Borough Hall, St. George, at 10.30 o'clock a. m.
Tuesdays, at the Borough Hall, St. George, at 10.30 o'clock a. m.
Wednesdays, at the Surrogate's Office, Richmond at 10.30 o'clock a. m.

DISTRICT ATTORNEY.

Borough Hall, St. George, S. I.
Samuel H. Evins.
Telephone, 60 Tompkinsville.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m to 12 m.

SHERIFF.

County Court-house, Richmond, S. I.
Joseph I. Barth
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m to 12 m.

THE COURTS.

APPELLATE DIVISION OF THE SUPREME COURT.

FIRST JUDICIAL DEPARTMENT.

Court-house, Madison avenue, corner Twenty-fifth street. Court opens at 1 p. m. (Friday, Motion day at 10.30 a. m.)
Edward Patterson, Presiding Justice; George L. Ingraham, Chester B. McLaughlin, Frank C. Laughlin, John Proctor Clarke, James W. Houghton Francis M. Scott, Justices; Alfred Wagstaff, Clerk; William Lamb, Deputy Clerk.
Clerk's Office opens at 9 a. m.
Telephone, 3840 Madison Square.

SUPREME COURT—FIRST DEPARTMENT.

County Court-house, Chambers street. Court open rom 10.15 a. m. to 4 p. m.
Special Term, Part I. (motions), Room No. 16.
Special Term, Part II. (ex-parte business), Room No. 13.
Special Term, Part III., Room No. 19.
Special Term, Part IV., Room No. 20.
Special Term, Part V., Room No. 6.
Special Term, Part VI. (Elevated Railroad cases) Room No. 31.
Trial Term, Part II., Room No. 34.
Trial Term, Part III., Room No. 22.
Trial Term, Part IV., Room No. 21.
Trial Term, Part V., Room No. 24.
Trial Term, Part VI., Room No. 18.
Trial Term, Part VII., Room No. —.
Trial Term, Part VIII., Room No. 23.
Trial Term, Part IX., Room No. 35.
Trial Term, Part X., Room No. 26.
Trial Term, Part XI., Room No. 27.
Trial Term, Part XII., Room No. —.
Trial Term, Part XIII., and Special Term, Part VII., Room No. 36.
Trial Term, Part XIV., Room No. 28
Trial Term, Part XV., Room No. 37.
Trial Term, Part XVI., Room No. —.
Trial Term, Part XVII., Room No. 20
Trial Term, Part XVIII., Room No. 29.
Appellate Term, Room No. 29.
Naturalization Bureau, Room No. 38, third floor.
Assignment Bureau, room on mezzanine floor, northeast.
Clerks in attendance from 10 a. m. to 4 p. m.
Clerk's Office, Special Term, Part I. (motions), Room No. 15.
Clerk's Office, Special Term, Part II. (ex-parte business), ground floor, southeast corner.
Clerk's Office, Special Term, Calendar, ground floor, south.
Clerk's Office, Trial Term, Calendar, room north east corner, second floor, east.
Clerk's Office, Appellate Term, room southwest corner, third floor.
Trial Term, Part I. (criminal business).
Criminal Court-house, Centre street.
Justices—Charles H. Truax, Charles F. MacLean Henry Bischoff, Leonard A. Giegerich P. Henry Dugro, James Fitzgerald, James A. O'Gorman, James A. Blanchard, Samuel Greenbaum, Edward E. McCall, Edward B. Amend, Vernon M. Davis, Victor J. Dowling, Joseph E. Newburger, John W. Goff, Samuel Seabury, M. Warley Platzek, Peter A. Hendrick, John Ford, Charles W. Dayton, John J. Brady, Mitchell L. Erlanger, Charles L. Guy, James W. Gerard, Irving Lehman, Edward B. Whitney.
Peter J. Dooling, Clerk, Supreme Court
Telephone, 4580 Cortlandt.

SUPREME COURT—SECOND DEPARTMENT.

Kings County Court-house, Borough of Brooklyn N. Y.
Court open daily from 10 o'clock a. m. to 5 o'clock p. m. Seven jury trial parts. Special Term for Trials. Special Term for Motions.
James F. McGee, General Clerk.
Telephone, 5460 Main.

CRIMINAL DIVISION—SUPREME COURT.

Building for Criminal Courts, Centre, Elm, White and Franklin streets.
Court opens at 10.30 a. m.
Peter J. Dooling, Clerk; Edward R. Carroll, Special Deputy to the Clerk.
Clerk's Office open from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 6064 Franklin.

COURT OF GENERAL SESSIONS.

Held in the Building for Criminal Courts, Centre Elm, White and Franklin streets.
Court opens at 10.30 a. m.
Thomas C. T. Crain, Otto A. Rosalsky, Warren W. Foster, Thomas C. O'Sullivan, Edward Swann Joseph F. Mulqueen, James T. Malone, Judges of the Court of General Sessions Edward R. Carroll Clerk. Telephone, 1201 Franklin.
Clerk's Office open from 9 a. m. to 4 p. m.
During July and August Clerk's Office will close at 2 p. m., and on Saturdays at 12 m.

CITY COURT OF THE CITY OF NEW YORK.

No. 32 Chambers street, Brownstone Building, City Hall Park, from 10 a. m. to 4 p. m.
Part I.
Part II.
Part III.
Part IV.
Part V.
Part VI.
Part VII.
Part VIII.
Special Term Chambers will be held from 10 a. m to 4 p. m.
Clerk's Office open from 9 a. m. to 4 p. m.
Edward F. O'Dwyer, Chief Justice; Lewis J. Conlan, Francis B. Delehanty, Joseph I. Green Alexander Finelite, Thomas F. Donnelly, John V McAvoy, Peter Schmuck, Richard T. Lynch, Edward B. La Fetra, Justices. Thomas F. Smith, Clerk.
Telephone, 6142 Cortlandt.

COURT OF SPECIAL SESSIONS.

Building for Criminal Courts, Centre street between Franklin and White streets, Borough of Manhattan.
Court opens at 10 a. m.
Justices—First Division—William E. Wyatt, Willard H. Olmsted, Joseph M. Deuel, Lorenz Zeller John B. Mayo, Franklin Chase Hoyt. William M. Fuller, Clerk.
City Magistrates to sit in the Court of Special Sessions until November 30, 1909—Charles W. Harris, Joseph F. Moss.
Clerk's Office open from 9 a. m. to 4 p. m.
Telephone, 2092 Franklin, Clerk's office.
Telephone, 601 Franklin, Justices' chambers.

Second Division—Trial Days—No. 171 Atlantic avenue, Brooklyn, Mondays, Thursdays and Fridays at 10 o'clock; Town Hall, Jamaica, Borough of Queens, Tuesday at 10 o'clock; Borough Hall, St George, Borough of Richmond, Wednesdays at 10 o'clock.
Justices—Howard J. Forker, John Fleming, Morgan M. L. Ryan, Robert J. Wilkin, George J. O'Keefe, James J. McInerney. Joseph L. Kerrigan Clerk.
Clerk's Office, No. 171 Atlantic avenue, Borough of Brooklyn, open from 9 a. m. to 4 p. m.

CHILDREN'S COURT.

First Division—No. 66 Third avenue, Manhattan.
Ernest K. Coulter, Clerk.
Telephone, 5353 Stuyvesant.
Second Division—No. 102 Court street, Brooklyn
William F. Delaney, Clerk.
Telephone, 627 Main.

CITY MAGISTRATES' COURT.

Court open from 9 a. m. to 4 p. m.
City Magistrates—Robert C. Cornell, Leroy B. Crane. Peter T. Barlow, Matthew P. Breen, Joseph F. Moss, Henry Steinert, Daniel E. Finn, Frederick B. House, Charles N. Harris, Frederic Kernochan, Arthur C. Butts, Joseph E. Corrigan, Moses Herrman, Paul Krotel, Keyran J. O'Connor, Henry W. Herbert.
Philip Bloch, Secretary, One Hundred and Twenty-first street and Sylvan place.
First District—Criminal Courts Building.
Second District—Jefferson Market.
Third District—No. 69 Essex street.
Fourth District—No. 151 East Fifty-seventh street.
Fifth District—One Hundred and Twenty-first street, southeastern corner of Sylvan place.
Sixth District—One Hundred and Sixty-first street and Brook avenue.
Seventh District—No. 314 West Fifty-fourth street,
Eighth District—Main street, Westchester.

Second Division.

Borough of Brooklyn.

City Magistrates—Edward J. Dooley, James G. Tighe, John Naumer, E. G. Higginbotham, Frank E. O'Reilly, Henry J. Furlong, A. V. B. Voorhees, Jr., Alexander H. Geismar, John F. Hylan, Howard P. Nash.
President of the Board, Edward J. Dooley, No. 232 Clermont avenue.
Secretary to the Board, Charles J. Flanigan, Myrtle and Vanderbilt avenues, and No. 648 Halsey street.

Courts.

First District—No. 318 Adams street.
Second District—Court and Butler streets.
Third District—Myrtle and Vanderbilt avenues.
Fourth District—No. 186 Bedford avenue.
Fifth District—No. 249 Manhattan avenue.
Sixth District—No. 495 Gates avenue.
Seventh District—No. 31 Snider avenue (Flatbush).
Eighth District—West Eighth street (Coney Island).
Ninth District—Fifth avenue and Twenty-third street.
Tenth District—No. 133 New Jersey avenue.

Borough of Queens.

City Magistrates—Matthew J. Smith, Joseph Fitch, Maurice E. Connolly, Eugene C. Gilroy.

Courts.

First District—St. Mary's Lyceum, Long Island City.
Second District—Town Hall, Flushing, L. I.
Third District—Central avenue, Far Rockaway L. I.

Borough of Richmond.

City Magistrates—Joseph B. Handy, Nathaniel Marsh.

Courts

First District—Lafayette place, New Brighton, Staten Island.
Second District—Village Hall, Stapleton, Staten Island.

MUNICIPAL COURTS.

Borough of Manhattan.

First District—The First District embraces the territory bounded on the south and west by the southerly and westerly boundaries of the said borough, on the north by the centre line of Fourteenth street and the centre line of Fifth street from the Bowery to Second avenue, on the east by the centre lines of Fourth avenue from Fourteenth street to Fifth street, Second avenue, Chrystie street, Division street and Catharine street.
Wauhope Lynn, William F. Moore, John Hoyes, Justices.
Thomas O'Connell, Clerk
Location of Court—Merchants' Association Building. Nos. 54-60 Lafayette street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.
Additional Parts are held at southwest corner of Sixth avenue and Tenth street and at No. 128 Prince street.
Telephone, 6030 Franklin.

Second District—The Second District embraces the territory bounded on the south by the centre line of Fifth street from the Bowery to Second avenue and on the south and east by the southerly and easterly boundaries of the said borough, on the north by the centre line of East Fourteenth street on the west by the centre lines of Fourth avenue from Fourteenth street to Fifth street, Second avenue, Chrystie street, Division street and Catharine street.
George F. Roesch, Benjamin Hoffman, Leon Sanders. Thomas P. Dinnean, Justices.
James J. Devlin, Clerk.
Location of Court—Nos. 264 and 266 Madison street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.
Telephone, 2596 Orchard.

Third District—The Third District embraces the territory bounded on the south by the centre line of Fourteenth street, on the east by the centre line of Seventh avenue from Fourteenth street to Fifty-ninth street and by the centre line of Central Park West from Fifty-ninth street to Sixty-fifth street on the north by the centre line of Sixty-fifth street and the centre line of Fifty-ninth street from Seventh to Eighth avenue, on the west by the westerly boundary of the said borough.
Thomas E. Murray, James W. McLaughlin, Justices.
Michael Skelly, Clerk.
Location of Court—No. 314 West Fifty-fourth street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.
Telephone number, 5450 Columbus.

Fourth District—The Fourth District embraces the territory bounded on the south by the centre line of East Fourteenth street, on the west by the centre line of Lexington avenue and by the centre line of Irving place, including its projection through Gramercy Park, on the north by the centre line of Fifty-ninth street, on the east by the easterly line of said borough; excluding, however, any portion of Blackwell's Island.
Michael F. Blake, William J. Boyhan, Justices.
Abram Bernard, Clerk.
Location of Court—Part I., and Part II., No. 151 East Fifty-seventh street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Fifth District—The Fifth District embraces the territory bounded on the south by the centre line of Sixty-fifth street, on the east by the centre line of Central Park West, on the north by the centre line of One Hundred and Tenth street, on the west by the westerly boundary of said borough.
Alfred P. W. Seaman, William Young, Frederick Spiegelberg, Justices.
James V. Gilloon, Clerk.
Location of Court—Broadway and Ninety-sixth street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.
Telephone, 4006 Riverside.

Sixth District—The Sixth District embraces the territory bounded on the south by the centre line of Fifty-ninth street and by the centre line of Ninety-sixth street from Lexington avenue to Fifth avenue, on the west by the centre line of Lexington avenue from Fifty-ninth street to Ninety-sixth street and the centre line of Fifth avenue from Ninety-sixth street to One Hundred and Tenth street, on the north by the centre line of One Hundred and Tenth street, on the east by the easterly boundary of said borough, including, however, all of Blackwell's Island and excluding any portion of Ward's Island.
Herman Joseph, Jacob Marks, Justices.
Edward A. McQuade, Clerk.
Location of Court—Northwest corner of Third avenue and Eighty-third street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.
Telephone, 4343 79-St

Seventh District—The Seventh District embraces the territory bounded on the south by the centre line of One Hundred and Tenth street, on the east by the centre line of Fifth avenue to the northerly

terminus thereof, and north of the northerly terminus of Fifth avenue, following in a northerly direction the course of the Harlem river, on a line conterminous with the easterly boundary of said borough, on the north and west by the northerly and westerly boundaries of said borough.

Phillip J. Sinnott, David L. Weil, John R. Davies, Justices.

Heman B. Wilson, Clerk.

Location of Court—No. 70 Mannattan street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Eighth District—The Eighth District embraces the territory bounded on the south by the centre line of One Hundred and Tenth street, on the west by the centre line of Fifth avenue, on the north and east by the northerly and easterly boundaries of said borough, including Randall's Island and the whole of Ward's Island.

Joseph P. Fallon, Leopold Prince, Justices.

William J. Kennedy, Clerk.

Location of Court—Sylvan place and One Hundred and Twenty-first street, near Third avenue. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 3950 Harlem.

Ninth District—The Ninth District embraces the territory bounded on the south by the centre line of Fourteenth street and by the centre line of Fifty-ninth street from the centre line of Seventh avenue to the centre line of Central Park West, on the east by the centre line of Lexington avenue and by the centre line of Irving place, including its projection through Gramercy Park, and by the centre line of Fifth avenue from the centre line of Ninety-sixth street to the centre line of One Hundred and Tenth street, on the north by the centre line of Ninety-sixth street from the centre line of Lexington avenue to the centre line of Fifth avenue and by One Hundred and Tenth street from Fifth avenue to Central Park West, on the west by the centre line of Seventh avenue and Central Park West.

Edgar J. Lauer, Frederick De Witt Wells, Frank D. Sturges, William C. Wilson, Justices.

William J. Chamberlain, Clerk.

Location of Court—Southwest corner of Madison avenue and Fifty-ninth street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 3873 Plaza

Borough of The Bronx.

First District—All that part of the Twenty-fourth Ward which was lately annexed to the City and County of New York by chapter 934 of the Laws of 1895, comprising all of the late Town of Westchester and part of the Towns of Eastchester and Pelham, including the Villages of Wakefield and Williamsbridge. Court-room, Town Hall, No. 1400 Williamsbridge road, Westchester Village. Court open daily (Sundays and legal holidays excepted), from 9 a. m. to 4 p. m. Trial of causes, Tuesday and Friday of each week.

Peter A. Sheil, Justice.

Stephen Collins, Clerk.

Office hours from 9 a. m. to 4 p. m; Saturdays closing at 12 m.

Telephone, 457 Westchester.

Second District—Twenty-third and Twenty-fourth Wards, except the territory described in chapter 934 of the Laws of 1895. Court-room, southeast corner of Washington avenue and One Hundred and Sixty-second street. Office hours, from 9 a. m. to 4 p. m. Court opens at 9 a. m., Sundays and legal holidays excepted.

John M. Tierney, Justice. Thomas A. Maher, Clerk.

Telephone, 3043 Melrose.

Borough of Brooklyn.

First District—Comprising First, Second, Third, Fourth, Fifth, Sixth, Tenth and Twelfth Wards and that portion of the Eleventh Ward beginning at the intersection of the centre lines of Hudson and Myrtle avenues, thence along the centre line of Myrtle avenue to North Portland avenue, thence along the centre line of North Portland avenue to Flushing avenue, thence along the centre line of Flushing avenue to Navy street, thence along the centre line of Navy street to Johnson street, thence along the centre line of Johnson street to Hudson avenue, and thence along the centre line of Hudson avenue to the point of beginning, of the Borough of Brooklyn. Court-house, northwest corner State and Court streets. Parts I. and II.

John J. Walsh, Justice. Edward Moran, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Second District—Seventh Ward and that portion of the Twenty-first and Twenty-third Wards west of the centre line of Stuyvesant avenue and the centre line of Schenectady avenue, also that portion of the Twentieth Ward beginning at the intersection of the centre lines of North Portland and Myrtle avenues, thence along the centre line of Myrtle avenue to Waverly avenue, thence along the centre line of Waverly avenue to Park avenue, thence along the centre line of Park avenue to Washington avenue, thence along the centre line of Washington avenue to Flushing avenue, thence along the centre line of Flushing avenue to North Portland avenue, and thence along the centre line of North Portland avenue to the point of beginning.

Court-room, No. 495 Gates avenue.

Gerard B. Van Wart and Charles J. Dodd, Justices. Franklin B. Van Wart, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Third District—Embraces the Thirteenth, Fourteenth, Fifteenth, Sixteenth, Seventeenth, Eighteenth and Nineteenth Wards, and that portion of the Twenty-seventh Ward lying northwest of the centre line of Starr street between the boundary line of Queens County and the centre line of Central avenue, and northwest of the centre line of Suydam street between the centre lines of Central and Bushwick avenues, and northwest of the centre line of Willoughby avenue between the centre lines of Bushwick avenue and Broadway. Court-house, Nos. 6 and 8 Lee avenue, Brooklyn.

Philip D. Meagher and William J. Bogenshutz, Justices. John W. Carpenter Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Court opens at 9 a.m.

Telephone 995 Williamsburg.

Fourth District—Embraces the Twenty-fourth and Twenty-fifth Wards, that portion of the Twenty-first and Twenty-third Wards lying east of the centre line of Stuyvesant avenue and east of the centre line of Schenectady avenue, and that portion of the Twenty-seventh Ward lying southeast of the centre line of Starr street between the boundary line of Queens and the centre line of Central avenue, and southeast of the centre line of Suydam street between the centre lines of Central and Bushwick avenues, and southeast of the centre line of Willoughby avenue between the centre lines of Bushwick avenue and Broadway.

Court-room, No. 14 Howard avenue

Thomas H. Williams, Justice. G. J. Wiederhold Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted

Fifth District—Contains the Eighth, Thirtieth and Thirty-first Wards, and so much of the Twenty-second Ward as lies south of Prospect avenue. Court-house, northwest corner of Fifty-third street and Third avenue.

Cornelius Furgueson, Justice. Jeremiah J. O'Leary, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Telephone, 407 Bay Ridge.

Sixth District—The Sixth District embraces the Ninth and Twenty-ninth Wards and that portion of the Twenty-second Ward north of the centre line of Prospect avenue; also that portion of the Eleventh and the Twentieth Wards beginning at the intersection of the centre lines of Bridge and Fulton streets; thence along the centre line of Fulton street to Flatbush avenue; thence along the centre line of Flatbush avenue to Atlantic avenue; thence along the centre line of Atlantic avenue to Washington avenue; thence along the centre line of Washington avenue to Park avenue; thence along the centre line of Park avenue to Waverly avenue; thence along the centre line of Waverly avenue to Myrtle avenue; thence along the centre line of Myrtle avenue to Hudson avenue; thence along the centre line of Hudson avenue to Johnson street; thence along the centre line of Johnson street to Bridge street, and thence along the centre line of Bridge street to the point of beginning.

Lucien S. Bayliss and George Fielder, Justices Charles P. Bible, Clerk.

Court-house, No. 611 Fulton street.

Seventh District—The Seventh District embraces the Twenty-sixth, Twenty-eighth and Thirty-second Wards.

Alexander S. Rosenthal and Edward A. Richards, Justices Samuel F. Brothers, Clerk.

Court-house, corner Pennsylvania avenue and Fulton street (No. 31 Pennsylvania avenue).

Clerk's Office open from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Trial days, Tuesdays, Wednesdays, Thursdays and Fridays.

Jury days, Tuesdays and Fridays.

Clerk's Telephone, 904 East New York.

Court Telephone, 905 East New York.

Borough of Queens.

First District—First Ward (all of Long Island City formerly composing five wards). Court-room, St. Mary's Lyceum, Nos. 115 and 117 Fifth street, Long Island City.

Clerk's Office open from 9 a. m. to 4 p. m. each day, excepting Saturdays, closing at 12 m. Trial days, Mondays, Wednesdays and Fridays. All other business transacted on Tuesdays and Thursdays.

Thomas C. Kadien, Justice. Thomas F. Kennedy, Clerk.

Telephone, 2376 Greenpoint.

Second District—Second and Third Wards, which include the territory of the late Towns of Newtown and Flushing. Court-room in Court-house of the late Town of Newtown, corner of Broadway and Court street, Elmhurst, New York. P. O. Address, Elmhurst, Queens County, New York.

William Rasquin, Jr., Justice. Luke J. Connorton, Clerk.

Trial days, Tuesdays and Thursdays.

Clerk's Office open from 9 a. m. to 4 p. m

Telephone, 87 Newtown.

Third District—Fourth and Fifth Wards, comprising the territory of the former Towns and Villages of Jamaica, Far Rockaway and Rockaway Beach.

James F. McLaughlin, Justice. George W. Damon, Clerk.

Court-house, Town Hall, Jamaica.

Telephone, 189 Jamaica.

Clerk's Office open from 9 a. m. to 4 p. m.

Court held on Mondays, Wednesdays and Fridays at 9 a. m.

Borough of Richmond.

First District—First and Third Wards (Towns of Castleton and Northfield). Court-room, former Village Hall, Lafayette avenue and Second street, New Brighton.

Thomas C. Brown, Justice. Anning S. Prall, Clerk.

Clerk's Office open from 8.45 a. m. to 4 p. m.

Telephone, 503 Tompkinsville.

Second District—Second, Fourth and Fifth Wards Towns of Middletown, Southfield and Westfield). Court-room, former Edgewater Village Hall, Stapleton.

George W. Stake, Justice. Peter Tiernan, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m.

Court opens at 9 a. m. Calendar called at 10 a. m Court continued until close of business. Trial days. Mondays, Wednesdays and Fridays.

Telephone, 313 Tompkinsville.

OFFICIAL BOROUGH PAPERS.

BOROUGH OF THE BRONX.

"The Bronx Star," "North Side News," "Bronx Independent."

BOROUGH OF RICHMOND.

"Staten Island World," "The Staten Islander."

BOROUGH OF QUEENS.

"Long Island Star" (First and Second Wards), "Flushing Evening Journal" (Third Ward), "Long Island Farmer" (Fourth Ward), "Rockaway News" (Fifth Ward).

BOROUGH OF BROOKLYN.

"Brooklyn Eagle," "Brooklyn Times," "Brooklyn Citizen," "Brooklyn Standard-Union," "Brooklyner Freie Presse."

BOROUGH OF MANHATTAN.

"Real Estate Record and Guide" (Harlem District), "Manhattan and Bronx Advocate" (Washington Heights, Morningside Heights and Harlem Districts).

Designated by Board of City Record June 19, 1906. Amended June 20, 1906; September 30, 1907; February 24, 1908; March 5 and 16, 1908, and March 16, 1909.

BOROUGH OF THE BRONX.

NOTICE OF SALE AT PUBLIC AUCTION.

UNDER THE DIRECTION OF JOHN F. Murray, President of the Borough of The Bronx, the following articles of condemned and unserviceable property will be sold on

WEDNESDAY, DECEMBER 15, 1909,

at 10 o'clock a. m.

DESCRIPTION OF ARTICLES.

At One Hundred and Fifty-third Street and St. Anns Avenue.

Lot A—150 steel rails (about 8,770 linear feet of track).

At Department Yard, One Hundred and Forty-third Street and College Avenue.

Lot No. 1—1,178 shovels, short handle; 19 shovels, snow.
Lot No. 2—120 rakes.
Lot No. 3—183 hoes.
Lot No. 4—61 scythe blades.
Lot No. 5—683 bass brooms.
Lot No. 6—15 sickles.
Lot No. 7—17 wheelbarrows (iron and wood).
Lot No. 8—24 lanterns.
Lot No. 9—17 box ropes.
Lot No. 10—7 sand rammers.
Lot No. 11—7 oil cans, 1-gallon; 1 spade, garden.
Lot No. 12—5,000 pounds old iron, about.
Lot No. 13—75 linear feet rubber hose, ¾-inch; 2,868 linear feet rubber hose, 2½-inch and 4-inch, 4,145 pounds.
Lot No. 14—79 wheels, *monitor*, wagon and tool cart; 30 wheels, wheelbarrow.
Lot No. 15—10 old carriages.
Lot No. 16—1 one-horse wagon.
Lot No. 17—72 barrels, kerosene.
Lot No. 18—116 barrels, tar.
Lot No. 19—100 picks and grub picks, 5 hatchets, 6 dandruff brushes.
Lot No. 20—1 blacksmith bellows.
Lot No. 21—1 magneto and coil, automobile.
Lot No. 22—8 lamps, tin, received from West Farms Bridge over Bronx River, January 28.
Lot No. 22A—15 old stable blankets, 1 lot of old carriage curtains and aprons.
Lot No. 22B—1 automobile wind shield.
Lot No. 23—17 plows.
Lot No. 24—10 water pails.
Lot No. 25—94 old files, flat, double-end and round.
Lot No. 26—400 pounds copper wire.
Lot No. 27—253 iron fish plates.
Lot No. 28—440 iron tie rods.
Lot No. 29—5,534 linear feet curbstone.
Lot No. 30—3,224 linear feet bridgestone.
Lot No. 30A—2,500 old paving blocks, about.
Lot No. 31—1 dresser and mirror, 1 iron bedstead, 1 wire spring, 1 mattress, 1 oak centre table, 4 wooden chairs, 2 rolls oilcloth, 1 roll carpet, 1 tin box, containing bottles and old shoes.
Lot No. 32—1 mortar box.
Lot No. 33—1 stove, 1 couch, 1 bedspring, 1 iron bedstead, 1 mattress, 1 table, 1 galvanized pail, 1 grinding stone, 1 trunk with contents, 1 bundle old clothes.
Lot No. 34—1 section or portion of stoop, wooden.
Lot No. 35—1 large ice box.
Lot No. 36—2 stoves, 5 tin pails, 6 chairs, 2 rocking chairs, 2 carpets, 1 umbrella, 1 coal bucket and shovel, 2 brooms, 1 picture frame, 1 small basket, 1 saw, 1 window screen, 1 small toilet cabinet, 1 tin pail with kitchen utensils, 1 box old rags, 2 boxes with kitchen utensils, 2 wash boilers with contents, 1 old table (small), 1 bedstead, 2 mattresses, 1 spring, 1 small kitchen table, 1 basket with clothes, 1 piece oilcloth, 2 pieces matting, 1 bundle window shades, 2 valises with contents, 1 basket with books, etc.; 1 bundle bedding, 1 washstand, 1 bureau with glass, 1 small piece marble, 1 marble slab, 1 basket with contents, 1 trunk with contents, 1 document box with contents, 1 bookstand.

At Municipal Building, One Hundred and Seventy-seventh Street and Third Avenue.

Lot No. 37—8 coils Eureka fire hose, 540 feet.
Lot No. 38—18 automobile shoes.
Lot No. 39—11 automobile tubes, 1 storage battery.
Lot No. 40—515 feet rubber hose, ¾-inch, 195 pounds.
Lot No. 41—19 pairs rubber boots.
Lot No. 42—2 blotter bath pans, 1 letter press.
Lot No. 43—2 large stable lamps.
Lot No. 44—24 bentwood chairs.
Lot No. 45—14 standards, 6 brush hooks.
Lot No. 46—1 set harness (light), 1 horse blanket, 1 lot old stable blankets, 1 lot old carriage whips, 1 lot American flags.
Lot No. 47—1 automobile carburetter, 2 side lamps, 2 gas lamps, 1 tail lamp, 1 horn bulb, 1 automobile tube, 1 differential shaft and gear wheels.
Lot No. 48—35 large street lamp tops, 47 large street lamp globes, 47 large street lamp burners.
Lot No. 49—6 lamps and burners.
Lot No. 50—6 lamp burners.
Lot No. 51—6 lamp brackets and tops.
Lot No. 52—5 lamp globes.
Lot No. 53—6 lamps and globes.
Lot No. 54—4 lamp globes.
Lot No. 55—55 padlocks, 49 tape measures, 5 angle targets.
Lot No. 56—1 5-inch wrought iron pipe, 6 feet long, 3 4-inch wrought iron pipes, 7 feet long, 2 5-inch wrought iron pipes, 2 feet long, 10 feet 3-inch wrought iron pipe, 8 feet 2½-inch wrought iron pipe, 2 feet 1¼-inch wrought iron pipe, 4 feet 2-inch cast iron pipe, 1 foot 2-inch cast iron pipe, 1 1-inch gas pipe, 8 feet long.
Lot No. 57—3 tin water coolers and 1 stand, 1 glue pot, 3 dozen 8-inch tin electric light reflectors.
Lot No. 58—1 cast iron cog wheel 2 feet 4 inches in diameter, 2 small kegs of scrap iron, about 100 pounds.

TERMS OF SALE.

Cash payment in bankable funds at the time and place of sale, and removal of the materials within three days from the date of sale. If the purchaser or purchasers do not comply with the above conditions of removal they shall forfeit his or their purchase money and the ownership of the articles purchased.

And the President of the Borough of The Bronx reserves the right on the day of sale to withdraw from the sale any of the articles and materials, or to reject any and all bids.

JOHN F. MURRAY, President.

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BOARD OF WATER SUPPLY.

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply in Room 910, No. 299 Broadway, New York, until 11 a. m. on

TUESDAY, DECEMBER 21, 1909.

For Contract No. 9—FOR THE CONSTRUCTION OF KENSICO DAM, A HIGH MASONRY DAM ACROSS THE VALLEY OF THE BRONX RIVER, AND APPURTENANT WORKS, INCLUDING NEW RYE RESERVOIR, NEW RYE DIKE, BRONX-RYE TUNNEL, BRONX DIKE AND RYE PIPE LINE.

The work is located about three miles north of White Plains, near Valhalla Station, on the Harlem Division of the New York Central and Hudson River Railroad, Westchester County, N. Y.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board of Water Supply as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

Two or more bonds, the aggregate amount of which shall be One Million Dollars ($1,000,000), will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of The City of New York, to the amount of two hundred thousand dollars ($200,000).

Time allowed for the completion of the work is one hundred and twenty (120) months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, etc., and pamphlets of contract drawings can be obtained at Room 906 at the above address upon application in person or by mail, by depositing the sum of ten dollars ($10) in currency, or check drawn to the order of the Board of Water Supply for each pamphlet, or twenty dollars ($20) for each set. This deposit will be refunded upon the return of the pamphlets in acceptable condition within thirty days from the date on which bids are to be opened.

JOHN A. BENSEL, President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.

J. WALDO SMITH, Chief Engineer.
THOMAS HASSETT, Secretary.

Note—See general instructions to bidders on last page, last column, of the CITY RECORD, so far as applicable hereto, and not otherwise provided for.

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CONTRACT 53.

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply, in Room 910, No. 299 Broadway, New York, until 11 a. m. on

THURSDAY, DECEMBER 16, 1909,

FOR CONTRACT 53.

FOR THE CONSTRUCTION OF GRASSY SPRAIN CUT AND COVER, PLATT AVENUE SIPHON AND PORTIONS OF ARDSLEY CUT AND COVER, AGGREGATING ABOUT 24,400 FEET OF PLAIN CONCRETE CONDUIT, KNOWN AS AQUEDUCT IN OPEN CUT AND ON EMBANKMENT, 17½ FEET HIGH BY 18 FEET WIDE INSIDE, AND ABOUT 138 FEET OF AQUEDUCT OF SPECIAL DESIGN, BUILT OF REINFORCED CONCRETE.

The work is located east of the Hudson River, in the Town of Greenburg and the City of Yonkers, Westchester County, N. Y.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board of Water Supply as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

Two or more bonds, the aggregate amount of which shall be Three Hundred and Seventy Thousand Dollars ($370,000), will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of The City of New York, to the amount of Forty Thousand Dollars ($40,000).

Time allowed for the completion of the work is forty-two (42) months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, etc., and pamphlets of contract drawings, can be obtained at Room 906, at the above address, upon application in person or by mail, by depositing the sum of ten dollars ($10) in currency, or check drawn to the order of the Board of Water Supply, for each pamphlet, or twenty dollars ($20) for each set. This deposit will be refunded upon the return of the pamphlets in acceptable condition within thirty days from the date on which bids are to be opened.

JOHN A. BENSEL, President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.

J. WALDO SMITH, Chief Engineer.
THOMAS HASSETT, Secretary.

Note—See General Instructions to Bidders on last page, last column, of the CITY RECORD, so far as applicable hereto and not otherwise provided for.

n27,d16

ASHOKAN RESERVOIR.

SALE AND REMOVAL OF TIMBER.

PURSUANT TO ACTION TAKEN BY THE Board of Water Supply of The City New York November 16, 1909, all the timber standing at the date of sale upon the following property of The City of New York will be sold at public auction in front of the office of the Department Engineer, Browns Station, Ulster County, N. Y., on

TUESDAY, DECEMBER 14, 1909,

commencing at 10 o'clock a. m., said property being known by the following parcel numbers on the maps of the Ashokan Reservoir, prepared by said Board and filed in the office of the Clerk of Ulster County at Kingston, N. Y.:

Fountain Kill Lot—Parcels Nos. 1, 3, 7, 10, 11, 12, 21, in Section 1; Parcels Nos. 140, 141, 142, 143, 144, in Section 4.

Bridal Veil Lot—Parcels Nos. 315, 316, 317, 319, 320, 323, in Section 8.

Snyder Lot—Parcels Nos. 166, 171, 172, in Section 4.

Teas Lot—Parcels Nos. 200, 204, 205, in Section 5.

Cudney Lot—Parcels Nos. 183, 185, in Section 5.

Weidner Lot—Parcel No. 460A, in Section 10.

Hogan Lot—Parcels Nos. 85, 94, 95, in Section 3.

The timber on each of said lots will be sold separately and for a sum in gross to the highest bidder, who will be required to deposit with the auctioneer, at the time of sale, 50 per cent. of the knock-down price and to sign an agreement to pay the balance of the purchase price within ten days thereafter, and within said ten days to furnish a bond conditioned to insure the proper and workmanlike removal of the timber, and clearing of the ground, within one hundred and twenty (120) days from the date of sale.

Copies of the form of agreement can be seen and other necessary information can be obtained at the office of the Department Engineer, at Browns Station, N. Y.

Dated, No. 299 Broadway, New York City, November 22, 1909.

JOHN A. BENSEL, President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply of The City of New York.

n27,d14

CONTRACT 30.

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply, in Room 910, No. 299 Broadway, New York, until 11 a. m. on

WEDNESDAY, DECEMBER 8, 1909.

For Contract 30—FOR THE CONSTRUCTION OF HILL VIEW RESERVOIR AND APPURTENANCES, AND PORTIONS OF THE YONKERS AND VAN CORTLANDT SIPHONS OF THE CATSKILL AQUEDUCT.

The reservoir will be built of earth embankments, lined with concrete, and will be approxi-

mately 3,000 feet long and 1,500 feet wide. The siphons will be lined with concrete and will be 16 feet 7 inches in diameter. The work will be located in the City of Yonkers, Westchester County, N. Y.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

Two or more bonds, the aggregate amount of which shall be seven hundred thousand dollars ($700,000), will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of The City of New York, to the amount of one hundred thousand dollars ($100,000).

Time allowed for the completion of the work is seventy-six (76) months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, etc., and pamphlets of contract drawings, can be obtained at Room 906, at the above address, upon application in person or by mail, by depositing the sum of ten dollars ($10) in currency, or check drawn to the order of the Board of Water Supply, for each pamphlet, or twenty dollars ($20) for each set. This deposit will be refunded upon the return of the pamphlets in acceptable condition within thirty days from the date on which bids are to be opened.

JOHN A. BENSEL, President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.

I. WALDO SMITH, Chief Engineer.
THOMAS HASSETT, Secretary.

Note—See general instructions to bidders on last page, last column of the CITY RECORD, so far as applicable hereto and not otherwise provided for.

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BOROUGH OF MANHATTAN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan, at the City Hall, Room 16, until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909,

No. 1. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF EAST FORTY-FIRST STREET, FROM THE WALL TO EAST SIDE OF SECOND AVENUE.

Engineer's estimate of amount of work to be done:

2,130 square yards of asphalt block pavement.
370 cubic yards Portland cement concrete, including mortar bed.
1,210 linear feet new bluestone curbstone, furnished and set.
50 linear feet old bluestone curbstone, redressed, rejointed and reset.
4 noiseless heads and covers, complete, for sewer manholes, furnished and set.
2 noiseless heads and covers, complete, for water manholes, furnished and set.
2,090 square yards of old stone blocks, to be purchased and removed by contractor.

Time allowed for doing and completing the above work will be thirty (30) working days.

Amount of security required will be Two Thousand Dollars ($2,000).

No. 2. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE UPPER ROADWAYS OF FORTY-SECOND STREET, FROM THE WALL TO THE EAST SIDE OF SECOND AVENUE, AND PROSPECT PLACE, FROM THE NORTH SIDE OF FORTY-SECOND STREET TO SOUTH SIDE OF FORTY-THIRD STREET.

Engineer's estimate of amount of work to be done:

2,730 square yards asphalt block pavement, except the railroad area.
40 square yards asphalt block pavement in the railroad area (no guarantee).
530 cubic yards of Portland cement concrete, including mortar bed.
1,550 linear feet of new bluestone curbstone, furnished and set.
90 linear feet of old bluestone curbstone, redressed, rejointed and reset.
1 noiseless head and cover, complete, for sewer manhole, furnished and set.
1 noiseless head and cover, complete, for water manhole, furnished and set.
2,710 square yards of old stone blocks, to be purchased and removed by contractor.

Time allowed for doing and completing the above work will be forty (40) working days.

Amount of security required will be Three Thousand Dollars ($3,000).

No. 3. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF SIXTIETH STREET, FROM WEST SIDE OF AMSTERDAM AVENUE TO EAST SIDE OF WEST END AVENUE.

Engineer's estimate of amount of work to be done:

2,780 square yards of asphalt block pavement.
545 cubic yards Portland cement concrete, including mortar bed.
1,550 linear feet new bluestone curbstone, furnished and set.
100 linear feet old bluestone curbstone, redressed, rejointed and reset.
8 noiseless heads and covers, complete, for sewer manholes, furnished and set.
7 noiseless heads and covers, complete, for water manholes, furnished and set.
2,740 square yards of old stone blocks, to be purchased and removed by contractor.

Time allowed for doing and completing the above work will be thirty (30) working days.

Amount of security required will be Three Thousand Dollars ($3,000).

No. 4. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF SIXTY-FIRST STREET, FROM THE WEST SIDE OF AMSTERDAM AVENUE TO THE EAST SIDE OF WEST END AVENUE.

Engineer's estimate of amount of work to be done:

2,800 square yards of asphalt block pavement.
550 cubic yards of Portland cement concrete, including mortar bed.
1,650 linear feet new bluestone curbstone, furnished and set.
20 linear feet old bluestone curbstone, redressed, rejointed and reset.
5 noiseless heads and covers, complete, for sewer manholes, furnished and set.
2 noiseless heads and covers, complete, for water manholes, furnished and set.
2,750 square yards of old stone blocks, to be purchased and removed by contractor.

Time allowed for doing and completing the above work will be thirty (30) working days.

Amount of security required will be Three Thousand Dollars ($3,000).

No. 5. FOR REGULATING AND REPAVING WITH SHEET ASPHALT ON CONCRETE FOUNDATION THE ROADWAY OF CATHARINE STREET, FROM THE NORTH SIDE OF OAK STREET TO THE NORTH SIDE OF MONROE STREET.

Engineer's estimate of amount of work to be done:

200 square yards asphalt pavement, including binder course.
30 cubic yards of Portland cement concrete.
110 linear feet new bluestone curbstone furnished and set.
10 linear feet old bluestone curbstone, redressed, rejointed and reset.
1 noiscless head and cover, complete, for sewer manhole, furnished and set.
1 noiseless head and cover, complete, for water manhole, furnished and set.
195 square yards old stone blocks, to be purchased and removed by contractor.

Time allowed for doing and completing the above work will be ten (10) working days.

Amount of security required will be Two Hundred Dollars ($200).

No. 6. FOR REGULATING AND REPAVING WITH SHEET ASPHALT PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF RENWICK STREET, FROM NORTH SIDE OF CANAL STREET TO SOUTH SIDE OF SPRING STREET.

Engineer's estimate of amount of work to be done:

1,630 square yards of asphalt pavement, including binder course.
330 cubic yards Portland cement concrete.
1,050 linear feet new bluestone curbstone furnished and set.
50 linear feet of old bluestone curbstone, redressed, rejointed and reset.
5 noiseless heads and covers, complete, for sewer manholes, furnished and set.
4 noiseless heads and covers, complete, for water manholes, furnished and set.
1,600 square yards of old stone blocks to be purchased and removed by the contractor.

Time allowed for doing and completing the above work will be twenty-five (25) working days.

Amount of security required will be One Thousand Five Hundred Dollars ($1,500).

No. 7. FOR REGULATING AND REPAVING WITH SHEET ASPHALT PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF CHRISTOPHER STREET, FROM THE WEST SIDE OF GREENWICH AVENUE TO THE EAST SIDE OF WAVERLY PLACE.

Engineer's estimate of amount of work to be done:

710 square yards of asphalt pavement, including binder course, except the railroad area.
390 square yards of asphalt pavement, including binder course, in the railroad area (no guarantee).
220 cubic yards of Portland cement concrete.
650 linear feet of new bluestone curbstone furnished and set.
100 linear feet of old bluestone curbstone, redressed, rejointed and reset.
3 noiseless heads and covers, complete, for sewer manholes, furnished and set.
1,080 square yards of old stone blocks, to be purchased and removed by the contractor.

Time allowed for doing and completing the above work will be twenty (20) working days.

Amount of security required will be One Thousand Dollars ($1,000).

No. 8. FOR REGULATING AND REPAVING WITH SHEET ASPHALT PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF FIFTY-EIGHTH STREET, WEST SIDE OF MADISON AVENUE, TO EAST SIDE OF FIFTH AVENUE.

Engineer's estimate of amount of work to be done:

1,500 square yards of asphalt pavement, including binder course.
190 cubic yards of Portland cement concrete.
400 linear feet new bluestone curbstone furnished and set.
100 linear feet old bluestone curbstone, redressed, rejointed and reset.
2 noiseless heads and covers, complete, for sewer manholes, furnished and set.
2 noiseless heads and covers, complete, for water manholes, furnished and set.

Time allowed for doing and completing the above work will be twenty (20) working days.

Amount of security required will be One Thousand Dollars ($1,000).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure, or article, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, Nos. 13 to 21 Park row, Bureau of Highways, Room 1607, Borough of Manhattan.

JOHN F. AHEARN, President.

The City of New York, December 3, 1909.

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☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan at the City Hall, Room 16, until 2 p. m.

MONDAY, DECEMBER 6, 1909,

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR SEWER AND APPURTENANCES IN ONE HUNDRED AND FIFTIETH STREET, BETWEEN RIVERSIDE DRIVE AND BROADWAY.

The Engineer's estimate of the quantity and quality of the material and the nature and extent, as near as possible, of the work required is as follows:

282 linear feet of sewer, viz.:
282 linear feet of salt-glazed vitrified stoneware pipe sewer of 15 inches interior diameter, all complete.
1,000 feet (B. M.) of timber and planking for bracing and sheet piling.
850 feet (B. M.) of timber and planking for foundations.

The time allowed to complete the whole work will be sixty (60) working days.

The amount of the security required will be Eight Hundred Dollars ($800).

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR SEWER AND APPURTENANCES ON THE WEST SIDE OF PARK AVENUE, BETWEEN THIRTY-SEVENTH AND THIRTY-EIGHTH STREETS.

The Engineer's estimate of the quantity and quality of the material and the nature and extent, as near as possible, of the work required is as follows:

185 linear feet of sewer, viz.:
185 linear feet of brick sewer of 3 feet 6 inches by 2 feet 4 inches interior diameters, all complete.
6 linear feet of salt-glazed vitrified stoneware pipe culvert of 12 inches interior diameter, all complete.
300 cubic yards of rock to be excavated and removed.
9,500 feet (B. M.) of timber and planking for bracing and sheet piling.

The time allowed to complete the whole work will be one hundred (100) working days.

The amount of the security required will be Twenty-five Hundred Dollars ($2,500).

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR RECEIVING BASINS AND APPURTENANCES ON THE NORTHEAST AND SOUTHEAST CORNERS OF ONE HUNDRED AND NINETY-THIRD STREET AND FORT GEORGE AVENUE.

The Engineer's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required, is as follows:

30 linear feet of salt-glazed, vitrified stoneware pipe culvert of 12 inches interior diameter, all complete.
2 receiving basins of the circular pattern, with new style grate bars and bluestone heads, all complete.
15 cubic yards of rock to be excavated and removed.

The time allowed to complete the whole work will be twenty (20) working days.

The amount of the security required will be Two Hundred and Fifty Dollars ($250).

No. 4. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR SEWER AND APPURTENANCES IN THEATRE ALLEY, BETWEEN ANN AND BEEKMAN STREETS.

The Engineer's estimate of the quantity and quality of the material and the nature and extent, as near as possible, of the work required, is as follows:

206 linear feet of sewer, viz.:
206 linear feet of brick sewer of 3-foot 6-inch by 2-foot 4-inch interior diameters, all complete.
12,000 feet (B. M.) of timber and planking for bracing and sheet piling for trenches or tunnel shafts.
40,000 feet (B. M.) of timber and planking for tunnel, to be paid for in the completed work, if used.
10,000 feet (B. M.) of timber and planking for bridging and flooring, to be paid for at the price bid when used twice; if used only once half the price bid will be paid.

The time allowed to complete the whole work will be sixty (60) working days.

The amount of the security required will be Two Thousand Dollars ($2,000).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure, or article, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms may be had and the plans and drawings may be seen at the office of the Commissioner of Public Works, Nos. 13 to 21 Park row, Bureau of Sewers, Borough of Manhattan.

City of New York, November 23, 1909.

JOHN F. AHEARN,
President, Borough of Manhattan.

n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF MANHATTAN, CITY HALL, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Manhattan, at the City Hall, Room 16, until 2 o'clock p. m. on

MONDAY, DECEMBER 6, 1909,

No. 1. FOR REREGULATING, REGRADING, CURBING AND RECURBING, FLAGGING AND REFLAGGING EAST SEVENTY-SIXTH STREET, FROM EXTERIOR STREET TO A POINT 314 FEET WESTERLY THEREFROM, AND CONSTRUCT RETAINING WALL AND GUARD RAIL.

Engineer's estimate of amount of work to be done:

270 cubic yards of earth excavation.
860 cubic yards of rock excavation.
50 cubic yards of Portland cement masonry for retaining wall.
33 cubic yards of Portland cement concrete for foundation.
170 linear feet of three-pipe railing.
170 linear feet of bluestone coping.
12 cubic yards of concrete steps and side walls.
332 square yards of old pavement, to be removed (not to be bid for).
460 linear feet of new curbstone, furnished and set.
200 linear feet of old curbstone, redressed, rejointed and reset.
2,200 square feet of new flagstone, furnished and laid.
400 square feet of old flagstone, retrimmed and relaid.

The time allowed for doing and completing above work is sixty (60) working days.

The amount of security required is Fifteen Hundred Dollars ($1,500).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per foot, yard or other unit of measure, or article, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, Nos. 13 to 21 Park row, Bureau of Highways, Room 1607, Borough of Manhattan.

JOHN F. AHEARN, President.

The City of New York, November 23, 1909.

n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

PRESIDENT OF THE BOROUGH OF MANHATTAN, OFFICES OF THE COMMISSIONER OF PUBLIC WORKS, BUREAU OF INCUMBRANCES, ROOM 1739, NOS. 13 TO 21 PARK ROW, NEW YORK, November 22, 1909.

NOTICE OF SALE AT PUBLIC AUCTION.

ON **MONDAY, DECEMBER 6, 1909,** the President of the Borough of Manhattan will sell at public auction, at 10 a. m., the following unclaimed articles, namely:

Stands, booths, signs, abandoned household furniture, office furniture, lumber, iron beams, barrels of cement and lime, fireproof brick, push-carts, safes, wagons, showcases, dispossessed fixtures, etc.

The sale to commence at the Corporation Yard, No. 409 West One Hundred and Twenty-third street; thence to West Fifty-sixth street, between Eleventh and Twelfth avenues; thence to foot of Rivington street, East River.

JOHN F. AHEARN, President.

n23,d6

COMMISSIONERS OF THE SINKING FUND.

NOTICE IS HEREBY GIVEN THAT A PUBlic hearing will be had before the Commissioners of the Sinking Fund of The City of New York in Room 16, City Hall, Borough of Manhattan, City of New York, on

WEDNESDAY, DECEMBER 15, 1909,

at 11 o'clock a. m., relative to a request of the Commissioner of Docks, that the Commissioners of the Sinking Fund adopt a resolution vesting title in The City of New York to the bulkhead between Piers (old) 52 and (old) 53, East River, Borough of Manhattan, described as follows:

"All the wharfage rights, terms, easements, emoluments and privileges not now owned by The City of New York appurtenant to all that certain bulkhead, wharf or dock property situate on the southerly side of South street, in the Borough of Manhattan, in The City of New York, beginning at a point in the present bulkhead between Gouverneur slip and Jackson street where the westerly side of Pier (old) 53, East River, intersects said bulkhead, said point of intersection being perpendicularly opposite or southerly of a point in the northerly line of South street, distant 31.01 feet from the westerly line of Jackson street, measured along the said northerly line of South street, and running thence from said point of intersection westerly along the present bulkhead between Pier (old) 52, East River, and Pier (old) 53, East River, 573.08 feet westerly to the easterly side of Pier (old) 52, East River."

On November 20, 1908, a resolution was adopted by the Board of Estimate and Apportionment authorizing the institution of condemnation proceedings for the acquisition of this property. The Corporation Counsel was accordingly requested to begin the proceedings for the acquisition of the property, and in a communication dated February 23, 1909, advises the Commissioner of Docks that the oaths of the Commissioners of Estimate appointed by the Supreme Court in the proceedings for the acquisition of the property were filed in the office of the Clerk of the County of New York on the 19th day of February, 1909.

The report of the Comptroller states that the demand for additional wharfage at this section of the water-front being very great, he advises that the vesting of title to the above described property be directed at as early a date as practicable.

GEO. B. McCLELLAN,
Chairman, Commissioners of the Sinking Fund.

n29,d4

BELLEVUE AND ALLIED HOSPITALS.

BELLEVUE AND ALLIED HOSPITALS DEPARTMENT OF NEW YORK CITY, TWENTY-SIXTH STREET AND FIRST AVENUE, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Board of Trustees in the Staff Room of Bellevue Hospital (entrance No. 411 East Twenty-sixth street), until 3 p. m. on

TUESDAY, DECEMBER 14, 1909.

For supplies for the year 1910, as follows:

No. 1. MEAT, FISH, MILK AND POULTRY.

No. 2. ALCOHOL, PLASTER, COTTON (ABSORBENT), HOSPITAL GAUZE AND LINT (ABSORBENT).

No. 3. CANNED AND BOTTLED GOODS, BREAD, ICE, BUTTER, EGGS, GROCERIES, VEGETABLES, FRUITS, PROVISIONS, SOAPS, HAY AND OATS, ETC., CROCKERY, GLASSWARE, HARDWARE, PLATED WARE, GRANITE WARE, MUSLINS AND DRYGOODS, RUBBER GOODS, UNIFORMS, HARNESS, ELECTRIC LAMPS, MISCELLANEOUS, ETC.

No. 4. ENGINEER'S SUPPLIES, LUMBER, PAINTS, GLASS AND OILS.

The surety required will be not less than fifty per cent. (50%) of the amount of the bid.

The time for the delivery of the supplies and the full performance of the contract is on or before December 31, 1910.

The bids will be read from the total, and will be compared and awarded to the lowest bidder as soon thereafter as practicable, according to law.

Blank forms may be obtained at the office of the Contract Clerk, No. 419 East Twenty-sixth street, Borough of Manhattan.

JOHN W. BRANNAN,
President of the Board of Trustees,
Bellevue and Allied Hospitals.

Dated November 30, 1909.

d3,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

BELLEVUE AND ALLIED HOSPITALS DEPARTMENT OF NEW YORK CITY, TWENTY-SIXTH STREET AND FIRST AVENUE, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Board of Trustees in the Staff Room of Bellevue Hospital (entrance No. 411 East Twenty-sixth street), until 3 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909.

FOR BLANKETS.

The surety required will be not less than fifty per cent. (50%) of the amount of the bid.

The time for the delivery of the supplies and the full performance of the contract is within forty-five (45) days from the date of the signing of the contract.

The bidder must submit a sample with the bid.

The bids will be read from the total and will be compared and awarded to the lowest bidder as soon thereafter as practicable, according to law.

Blank forms may be obtained at the office of the Contract Clerk, No. 419 East Twenty-sixth street, Borough of Manhattan.

JOHN W. BRANNAN,
President of the Board of Trustees,
Bellevue and Allied Hospitals.

Dated December 1, 1909.

d3,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION.

OFFICE OF THE DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

THURSDAY, DECEMBER 16, 1909,

No. 1. FOR FURNISHING AND DELIVERING HARDWARE, PAINTS, IRON, STEAM FITTINGS, LUMBER AND MISCELLANEOUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is Fifty Per Cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item. The bids on lumber will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN J. BARRY, Commissioner.

Dated December 1, 1909.

d3,16

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

TUESDAY, DECEMBER 14, 1909.
Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVERING 600 TONS WHITE ASH BROKEN COAL.

The time for the delivery of the articles, materials and supplies, and the performance of the contract is by or before December 31, 1909.

The amount of security required is Fifty Per Cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on total.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN J. BARRY, Commissioner.

Dated November 29, 1909.

n30,d14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

THURSDAY, DECEMBER 9, 1909.
Borough of Brooklyn.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR ERECTION AND ENTIRE COMPLETION OF THE STORE AND STABLE BUILDINGS, WALLS AND SIDEWALKS IN CONNECTION WITH THE WOMEN'S PRISON OF RAYMOND STREET JAIL SITUATE ON THE SOUTH EAST CORNER OF RAYMOND AND WILLOUGHBY STREETS, BOROUGH OF BROOKLYN, NEW YORK.

The time for the completion of the work and the full performance of the contract is by or before one hundred and eighty (180) consecutive calendar days.

The amount of security required is fifty per cent. (50%) of the amount of bid or estimate.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN J. BARRY, Commissioner.

Dated November 24, 1909.

n26,d9

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

TUESDAY, DECEMBER 7, 1909,
Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVERING HARDWARE, PAINTS, IRON, STEAM FITTINGS, LUMBER AND MISCELLANEOUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

The bids on lumber will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN J. BARRY, Commissioner.

Dated November 22, 1909.

n23,d7

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

TUESDAY, DECEMBER 7, 1909,
Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVERING SUPPLIES FOR MANUFACTURING PURPOSES, ETC.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN J. BARRY, Commissioner.

Dated November 22, 1909.

n23,d7

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

BOROUGH OF RICHMOND.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF RICHMOND, BOROUGH HALL, ST. GEORGE, NEW BRIGHTON, NEW YORK CITY.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at the above office until 12 o'clock noon on

TUESDAY, DECEMBER 14, 1909.
Borough of Richmond.

No. 1. FOR FURNISHING AND DELIVERING SPRUCE AND YELLOW PINE LUMBER AT STORE YARD, COLUMBIA STREET, WEST NEW BRIGHTON.

The time for the completion of the work and the full performance of the contract is ten (10) days.

The amount of security required is One Thousand Dollars ($1,000).

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond.

GEORGE CROMWELL, President.

The City of New York, November 23, 1909.

d2,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF RICHMOND, BOROUGH HALL, ST. GEORGE, NEW BRIGHTON, NEW YORK CITY.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond at the above office until 12 o'clock noon on

TUESDAY, DECEMBER 14, 1909,
Borough of Richmond.

No. 1. FOR FURNISHING AND DELIVERING ONE FIFTEEN GROSS TON STEAM ROAD ROLLER.

The time for the completion of the work and the full performance of the contract is ten (10) days.

The amount of security required is One Thousand Eight Hundred Dollars ($1,800).

The contracts must be bid for separately, and the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond.

GEORGE CROMWELL, President.

The City of New York, November 19, 1909.

n27,d14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF RICHMOND, BOROUGH HALL, ST. GEORGE, NEW BRIGHTON, NEW YORK CITY.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond, at the above office, until 12 o'clock m. on

TUESDAY, DECEMBER 14, 1909.
Borough of Richmond.

No. 1. FOR FURNISHING AND DELIVERING FORAGE AT STABLE "A," ON SWAN STREET, TOMPKINSVILLE, S. I.

The Superintendent's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

145,000 pounds of hay.
25,000 pounds of straw.
150,000 pounds of oats.
8,500 pounds of bran.
200 pounds of fine salt.
300 pounds of oil meal.
12 dozen salt bricks.

The time for the completion of the work and the full performance of the contract is by or before June 30, 1910.

The amount of security required is Twenty-two Hundred Dollars ($2,200).

No. 2. FOR FURNISHING AND DELIVERING FORAGE AT STABLE "B," ON COLUMBIA STREET, WEST NEW BRIGHTON, S. I.

The Superintendent's estimate of the quantity and quality of the material, and the nature and extent, as near as possible, of the work required is as follows:

90,000 pounds of hay.
15,000 pounds of straw.
103,340 pounds of oats.
3,000 pounds of bran.
600 pounds of oil meal.
7 dozen salt bricks.

The time for the completion of the work and the full performance of the contract is by or before June 30, 1910.

The amount of security required is Fifteen Hundred Dollars ($1,500).

The contracts must be bid for separately, and the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond.

The City of New York, November 1, 1909.

GEORGE CROMWELL, President.

n24,d14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD OF CITY RECORD.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Supervisor of the City Record, Room 807, Park Row Building, Nos. 13 to 21 Park row, in The City of New York, until 11 o'clock a. m. on

TUESDAY, DECEMBER 7, 1909,

FOR SUPPLYING PRINTED, LITHOGRAPHED OR STAMPED FORMS, PAMPHLETS, PRINTED BLANKS AND STATIONERY, INCLUDING LETTER AND WRITING PAPER AND ENVELOPES, WITH PRINTED HEADINGS OR INDORSEMENTS, ETC., FOR THE USE OF THE COURTS AND THE DEPARTMENTS AND BUREAUS OF THE GOVERNMENT OF THE CITY OF NEW YORK DURING THE YEAR 1910.

The time of delivery shall not be later than June 30, 1910.

The amount of security shall be twenty-five per cent. of the amount of the bid.

The bidder must state the price for each item and the total price of each schedule. The bids will be tested and the award will be made to the bidder whose bid is the lowest for each schedule.

Bidders will write out the total amount of their estimates, in addition to inserting the same in figures.

Delivery will be required to be made at the office of the City Record from time to time and in such quantities as may be directed by the Supervisor of the City Record.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Board of City Record, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the City Record where further information can be obtained.

GEO. B. McCLELLAN, Mayor;
FRANCIS KEY PENDLETON, Corporation Counsel;
HERMAN A. METZ, Comptroller;
Board of City Record.

New York, November 20, 1909.

n26,d7

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK, No. 300 MULBERRY STREET, BOROUGH OF MANHATTAN.

PUBLIC NOTICE IS HEREBY GIVEN THAT the thirteenth public auction sale, consisting of unclaimed property (watches, chains, charms, rings, pins, silverware, clothing, iron, brass, copper, lead, razors, knives, dress-suit cases, handbags, etc., etc.) will be held in the Trial Room, at No. 269 State street, Borough of Brooklyn, on

THURSDAY, DECEMBER 16, 1909,

at 10 a. m.

November 29, 1909.

WILLIAM F. BAKER, Commissioner.

d1,16

POLICE DEPARTMENT OF THE CITY OF NEW YORK, No. 300 MULBERRY STREET, BOROUGH OF MANHATTAN.

PUBLIC NOTICE IS HEREBY GIVEN THAT the one hundred and fourteenth public auction sale, consisting of condemned Police Department property, will be held at No. 300 Mulberry street, Manhattan, at 10 a. m. on

WEDNESDAY, DECEMBER 15, 1909,

Lot No. 1, one Densmore typewriter.

Lot No. 2, two iron gates, one Cook's Penal Code (1905), one greater New York Charter (1901), one City Ordinance (1905), one boiler (hot water, 80 gallons), one stove (hot water), eight bedsteads, seven bed springs, nine oil cans, 135 feet cable (elevator), lot of iron pipe stanchions, quantity of manila rope.

Lot No. 3, one safe (Herring).

Lot No. 4, one canvas tent, two rugs.

Lot No. 5, lot of old harness, consisting of bits, collars, bridles, traces, halters, breeching, etc.

Lot No. 6, three auto lamps, thirty lamps, ninety rosettes, two hundred and fifty coats of arms, ninety coats of arms (small), three lamp holders.

Lot No. 7, eight auto shoes, twenty remnants of auto tubes, two hundred and thirteent bicycle tires, three inner tubes (motor cycle), seventeen casings for motor cycle tires, two rubber mats and four auto shoes.

Lot No. 8, three thousand one hundred and twenty-five brass keys.

Lot No. 9, one bicycle (Eagle, No. 90945), one bicycle lamp and parts of twenty-four bicycles (junk).

Lot No. 10, one No. 16 monkey wrench, two No. 14 Stilson wrenches, two No. 18 Stilson wrenches, two No. 24 Stilson wrenches, one brass band for electric light, two throttle valves, one engine (Seabury triple expansion), one piece chain.

Lot No. 11, two hundred and twenty-seven battery jars (Gordon), one hundred and nineteen battery jars (gravity), three mercury jars (iron).

Lot No. 12, lot of lead and aerial cable (old), lot of iron and copper wire (old).

Lot No. 13, lot of copper and zinc (old), lot of bells, cut-outs, push buttons, fuse plugs, binding posts, battery material, lighting arresters, strips, switches, etc.

Lot No. 14, patrol wagon (double).

Lot No. 15, patrol wagon (single).

Lot No. 16, carriage.

Lot No. 17, one wooden work shop.

Lot No. 18, three rowboats.

Lot No. 19, quantity of copper.

Lots Nos. 17, 18 and 19 can be seen at the foot of East One Hundred and Twentieth street.

November 29, 1909.

WILLIAM F. BAKER, Commissioner.

d1,15

PUBLIC NOTICE IS HEREBY GIVEN that the 112th public auction sale of unclaimed property, consisting of watches, chains, rings, bracelets, brooches, stick pins, etc., clocks, opera glasses, camera, glassware, silverware, suit cases, trunks, clothing, shoes, hats, pocketbooks, tobacco, liquors, tools, knives, razors, baby carriages, bicycles, pushcarts, hand trucks, horse blankets, carpet, harness, auto tires, baseball bats and gloves, junk, brass, copper, lead and iron, cash register, typewriter, old wagons, buggy and miscellaneous articles, will be held at Police Headquarters, No. 300 Mulberry street, Manhattan, at 10 a. m., on

MONDAY, DECEMBER 13, 1909.

WILLIAM F. BAKER, Commissioner.

n30,d13

POLICE DEPARTMENT—CITY OF NEW YORK.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of The City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

WILLIAM F. BAKER,
Police Commissioner.

POLICE DEPARTMENT — CITY OF NEW YORK, BOROUGH OF BROOKLYN.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of The City of New York—Office, No. 209 State street, Borough of Brooklyn—for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

WILLIAM F. BAKER,
Police Commissioner.

DEPARTMENT OF DOCKS AND FERRIES.

DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m. on

MONDAY, DECEMBER 13, 1909.
Borough of Brooklyn.

CONTRACT NO. 1202.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR PREPARING FOR AND BUILDING A NEW PIER AT THE FOOT OF THIRTY-THIRD STREET, IN THE BOROUGH OF BROOKLYN, TO BE KNOWN AS THE THIRTY-THIRD STREET PIER.

The time for the completion of the work and the full performance of the contract is on or before the expiration of two hundred and sixty (260) calendar days.

The amount of security required is One Hundred Thousand Dollars ($100,000).

The bidder shall state a price for furnishing all of the labor and material called for, as the contract is entire and for a complete job, and, if awarded, will be awarded to the bidder whose price is the lowest for doing all of the work and whose bid is regular in all respects.

Work must be done at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the said Department.

ALLEN N. SPOONER, Commissioner.

Dated November 29, 1909.

d1,13

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m. on

FRIDAY, DECEMBER 10, 1909.

CONTRACT NO. 1203.

FOR FURNISHING HORSES, WITH HARNESS AND DRIVERS, FOR CARTING COAL TO AND REMOVING ASHES, ETC., FROM THE MUNICIPAL FERRYBOATS IN THE BOROUGHS OF BROOKLYN AND RICHMOND.

The time for the completion of the work and the full performance of the contract is on or before the expiration of December 31, 1910.

The amount of security required is as follows:

Class 1—For service of horses, harness and drivers, for Staten Island Ferry service, the sum of Seven Thousand Five Hundred Dollars ($7,500).

Class 2—For service of horses, harness and drivers, for Thirty-ninth Street Ferry service, the sum of Two Thousand Five Hundred Dollars ($2,500).

Bidders shall state a price per day for horse, harness and driver, as called for in the specifications. The bids will be tested by this unit price, and each class of the contract, if awarded, will be awarded separately to the lowest bidder in the class, according to such unit price.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the said Department.

ALLEN N. SPOONER, Commissioner.

Dated November 29, 1909.

n30,d10

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF DOCKS AND FERRIES, PIER "A," FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Docks at the above office until 12 o'clock m. on

FRIDAY, DECEMBER 10, 1909.

CONTRACT No. 1208.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING AND DELIVERING OILS AND GREASE.

The time for the completion of the work and the full performance of the contract is on or before the expiration of three hundred and sixty-five (365) calendar days.

The amount of security required is Six Thousand Dollars ($6,000).

Bidders shall state a price for furnishing and delivering all of the material called for in the specifications.

The contract, if awarded, will be awarded to the bidder whose price for furnishing all of the material called for is the lowest and whose bid is regular in all respects.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the said Department.

ALLEN N. SPOONER, Commissioner.

Dated November 29, 1909.

n30,d10

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PARKS.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, FIFTH AVENUE AND SIXTY-FOURTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, DECEMBER 9, 1909,

Borough of Manhattan.

FOR ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF ADDITION "H" TO THE METROPOLITAN MUSEUM OF ART, EXCLUSIVE OF INTERIOR FINISH AND PLANT, LOCATED IN CENTRAL PARK, ON THE WEST SIDE OF FIFTH AVENUE, OPPOSITE EIGHTY-THIRD STREET, BOROUGH OF MANHATTAN, NEW YORK CITY.

The amount of security required is One Hundred and Fifty Thousand Dollars ($150,000).

The time allowed to complete the whole work will be three hundred and fifty (350) consecutive calendar days.

The bids will be compared and the contract awarded at a lump or aggregate sum.

Plans may be seen and blank forms may be obtained at the office of the Department of Parks, Borough of Manhattan, Arsenal, Central Park.

HENRY SMITH, President;
JOSEPH I. BERRY,
MICHAEL J. KENNEDY,
Commissioners of Parks.

Dated November 24, 1909.

n24,d9

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ZBROWSKI MANSION, CLAREMONT PARK, BOROUGH OF THE BRONX.

SEALED BIDS WILL BE RECEIVED BY the Park Commissioner at the above office of the Department of Parks, until 12 o'clock m. on

FRIDAY, DECEMBER 3, 1909,

FOR THE PRIVILEGE OF ERECTING A PUBLIC BOATHOUSE IN PELHAM BAY PARK, ON PELHAM BAY, ON PLANS AND SPECIFICATIONS APPROVED BY THE COMMISSIONER OF PARKS, BOROUGH OF THE BRONX, THE LANDSCAPE ARCHITECT OF THE DEPARTMENT OF PARKS AND THE MUNICIPAL ART COMMISSION.

The lessee to have the privilege of conducting a restaurant therein, and letting boats therefrom, and lockers therein. Said building to become the property of the City at the end of the lease, which will be for a term of years; the said term to be a part of the bid. And said building to be opened to the boating and yachting public, and the prices to be charged for lockers, boats and refreshments to be fixed at reasonable rates, approved by the Park Commissioner.

No bids will be considered unless accompanied by a certified check or money to the amount of one-quarter of the sum bid for the rent and privilege per year.

The bids will be compared and the privilege will be awarded to the bidder whose bid the Commissioner deems most beneficial to the City.

The Commissioner reserves the right to ask one or more bidders to submit plans for the structure mentioned, which shall be done without cost to the City or Commissioner.

The Commissioner reserves the right to reject any or all bids.

Form of proposal and full information as to bidding can be obtained at the office of the Department of Parks, Zbrowski Mansion, Claremont Park, New York City.

JOSEPH I. BERRY, Commissioner.

n22,d3

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

FIRE DEPARTMENT.

HEADQUARTERS OF THE FIRE DEPARTMENT OF THE CITY OF NEW YORK, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at the above office until 10.30 o'clock a. m. on

MONDAY, DECEMBER 6, 1909,

Borough of Brooklyn.

No. 1. FOR FURNISHING AND DELIVERING GENERAL SUPPLIES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

Borough of Queens.

No. 2. FOR FURNISHING AND DELIVERING GENERAL SUPPLIES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each class and awards made to the lowest bidder on each class; or the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Fire Department, Nos. 157 and 159 East Sixty-seventh street, Manhattan.

NICHOLAS J. HAYES, Commissioner.

Dated November 23, 1909.

n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF FINANCE.

Notice of Sale.

DEPARTMENT OF FINANCE, BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS, COLLECTOR'S OFFICE, No. 280 BROADWAY, MANHATTAN.

NOTICE OF CONTINUATION OF MANHATTAN TAX SALE.

THE SALE OF THE LIENS FOR UNPAID taxes, assessments and water rents for the Borough of Manhattan, as to liens remaining unsold at the termination of sales of June 7, 10, 17, July 1, 15, August 19, September 20, October 14, November 11 and December 2, 1909, has been continued to

THURSDAY, DECEMBER 9, 1909,

at 10 a. m., pursuant to section 1028 of the Greater New York Charter, and will be continued at that time at the Aldermanic Chamber, in the City Hall, as heretofore.

DANIEL MOYNAHAN, Collector of Assessments and Arrears.

Dated December 2, 1909.

d3,9

Notices to Property Owners.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessments for OPENING AND ACQUIRING TITLE to the following named streets and place in the BOROUGH OF THE BRONX:

TWENTY-FOURTH WARD, SECTION 11.

WEST STREET—OPENING, from Honeywell street to Crotona Parkway. Confirmed November 9, 1909; entered November 30, 1909. Area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Bounded on the north by a line midway between West street and East One Hundred and Eighty-second street; on the east by Honeywell avenue; on the south by a line midway between West street and East One Hundred and Eighty-first street, and on the west by Crotona parkway.

TWENTY-FOURTH WARD, SECTIONS 12 AND 13.

KNOX PLACE—OPENING, from Mosholu Parkway North to Gun Hill Road, and GATES PLACE—OPENING, from Mosholu Parkway North to Gun Hill Road. Confirmed August 9, 1909; entered November 30, 1909. Area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at the intersection of a line 100 feet northwesterly from and parallel with the northwesterly line of Gates place, the said distance being measured at right angles to the line of Gates place with the westerly line of Mosholu Parkway North, and running thence northeastwardly and parallel with the line of Gates place to the intersection of the northeasterly line of Gun Hill road; thence northeasterly on a radial line 100 feet; thence southeasterly and always parallel with and distant 100 feet from the northeasterly line of Gun Hill road to the intersection with a line distant 100 feet southeasterly from and parallel with the southeasterly line of Knox place, the said distance being measured at right angles to the line of Knox place; thence southwestwardly and parallel with the southeasterly line of Knox place to the intersection with the easterly line of Mosholu Parkway North; thence westwardly at right angles to the line of Mosholu Parkway North 160 feet; thence northwardly and always parallel with the line of Mosholu Parkway North to the intersection with a line at right angles to Mosholu Parkway North, and passing through the point described as the point or place of beginning; thence eastwardly to the point or place of beginning.

The above entitled assessments were entered on the date hereinbefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents. Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 29, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessments became liens to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

d2,15

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the BOROUGH OF QUEENS:

FIRST WARD.

SEWER in BODINE STREET, from Vernon avenue to Hamilton street; in HAMILTON STREET, in HANCOCK STREET and in the BOULEVARD, from Bodine street to Harris avenue; in BODINE STREET, from Hamilton street to the Boulevard, and from the Boulevard to Sherman avenue. Area of assessment: Both sides of Bodine street, between Hancock street and Vernon avenue, and between Sherman street and Hancock street; west side of Hancock street, both sides of Hamilton street, between Bodine street and Harris avenue; east side of Hancock street, and both sides of the Boulevard, between Bodine street and Harris avenue; and Harris avenue, including lot No. 1 of Block 143.

—that the same was confirmed by the Board of Assessors November 30, 1909, and entered November 30, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at the Hackett Building, No. 51 Jackson avenue, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. until 12 m., and all payments made thereon on or before January 29, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

d2,15

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF RICHMOND:

FIRST WARD.

PROSPECT AVENUE—REGULATING AND FLAGGING, from York avenue to Lafayette avenue. Area of assessment: Both sides of Prospect avenue, from York avenue to Lafayette avenue, and to the extent of half the block at the intersecting avenues.

—that the same was confirmed by the Board of Assessors November 30, 1909, and entered on November 30, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest shall be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at Borough Hall, St. George, Borough of Richmond, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 29, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

d2,15

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 10.

FAILE STREET—SEWER, between Seneca avenue and Lafayette avenue. Area of assessment: Both sides of Faile street, from Seneca to Lafayette avenue, and northeast corner of Lafayette avenue and Hunts Point road.

RECEIVING BASIN at the southwesterly corner of IRVINE PLACE AND GARRISON AVENUE. Area of assessment: Block bounded by Seneca avenue, Irvine place, Garrison avenue and Hunts Point road.

TWENTY-FOURTH WARD, SECTION 11.

SUBURBAN PLACE—PAVING THE ROADWAY AND SETTING CURB, from Boston road to Crotona Park East. Area of assessment: Both sides of Suburban place, from Boston road to Crotona Park East, and to the extent of half the block at the intersecting streets.

—that the same were confirmed by the Board of Assessors on November 30, 1909, and entered November 30, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 29, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessments became liens to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

d2,15

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named street in the BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 10.

EAST ONE HUNDRED AND THIRTY-SIXTH STREET—OPENING, from Locust avenue to East River. Confirmed October 26, 1909; entered November 26, 1909. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the middle line of the blocks between East One Hundred and Fortieth street and East One Hundred and Forty-first street with the United States bulkhead line of the East River; running thence westerly along the United States East River bulkhead line to its intersection with a line parallel to and distant 100 feet west of the westerly line of East One Hundred and Thirty-second street; thence northerly along said parallel line to its intersection with a line parallel to and distant 100 feet north of the northerly line of Cypress avenue; thence easterly along said last-mentioned line to its intersection with the middle line of the block between East One Hundred and Fortieth street and East One Hundred and Forty-first street; thence southerly along said middle line of the block to the point or place of beginning.

The above entitled assessment was entered on the date hereinbefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents. Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 25, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 26, 1909.

n27,d10

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF BROOKLYN:

TWENTY-NINTH AND THIRTY-SECOND WARDS, SECTIONS 15, 16, 20 AND 23.

CONSTRUCTING SEWER in AVENUE G, from Coney Island avenue to Flatbush avenue; FLATBUSH AVENUE, easterly side, from its northerly intersection with Avenue G to its southerly intersection with Avenue G; AVENUE G, from Flatbush avenue to Nostrand avenue; NOSTRAND AVENUE, from Avenue G to Avenue F; AVENUE F, from Nostrand avenue to Paerdegat avenue, southerly side; PAERDEGAT AVENUE, southerly side, from Avenue F to East Forty-fifth street; EAST FORTY-FIFTH STREET, from Paerdegat avenue, southerly side, to Avenue G; AVENUE G, from East Forty-fifth street to Paerdegat avenue, southerly side; PAERDEGAT AVENUE, southerly side, from Avenue G to Flatlands avenue; AVENUE F, from East Twenty-sixth street to Nostrand avenue; NEW YORK AVENUE, between Avenue C and Avenue D; NEW YORK AVENUE, between Avenue D and Newkirk avenue; NEWKIRK AVENUE, between New York avenue and Nostrand avenue; NOSTRAND AVENUE, between Newkirk avenue and Avenue F; NOSTRAND AVENUE, between Avenue C and Newkirk avenue; BROOKLYN AVENUE, between Avenue H and Avenue J; AVENUE J, between Brooklyn avenue and East Fortieth street; EAST FORTIETH STREET, between Avenue J and Flatlands avenue; FLATLANDS AVENUE, between East Fortieth street and Paerdegat basin; EAST THIRTY-FIFTH STREET, from Glenwood road to Avenue H; EAST THIRTY-FIFTH STREET, from Avenue H to Flatbush avenue; FLATBUSH AVENUE, east side, from East Thirty-fifth street to Avenue J; AVENUE J, from Flatbush avenue to Brooklyn avenue; EAST TWENTY-NINTH STREET, from Canarsie lane to Avenue F; AVENUE D, from East Twenty-ninth street to Nostrand avenue; NEWKIRK AVENUE, from East Twenty-ninth street to Nostrand avenue; EAST THIRTY-FIRST STREET, between Flatbush avenue and Glenwood road; EAST TWENTY-EIGHTH STREET, from Clarendon road to Newkirk avenue; AVENUE D, from East Twenty-eighth street to East Twenty-ninth street; GLENWOOD ROAD, from East Thirty-fourth street to Brooklyn avenue, WITH SEWER BASINS at northeast and southeast corners of GLENWOOD ROAD AND NOSTRAND AVENUE, and northeast and southeast corners of Glenwood road and East Thirty-first street, and all four corners of GLENWOOD ROAD AND NEW YORK AVENUE; NEW YORK AVENUE, from Flatbush Water Works to Farragut road; EAST TWENTY-THIRD STREET, from Avenue G to a point about 500 feet north; SEWER BASINS ON FARRAGUT ROAD, at the northwest corner of Flatbush avenue; northwest, northeast and southeast corners of EAST TWENTY-FIFTH STREET; all four corners of MANSFIELD PLACE; northeast and northwest corners of DELAMERE PLACE; all four corners of ELMORE PLACE; northeast and northwest corners of KENMORE PLACE and northeast corner of Ocean avenue; northeast and northwest corners of NEW YORK AVENUE and Avenue H; SEWER IN ROGERS AVENUE, between Clarendon road and Flatbush avenue; AVENUE D, between Rogers avenue and East Twenty-eighth street; NEWKIRK AVENUE, between Rogers avenue and East Twenty-eighth street; KENMORE PLACE, from Avenue G to the end of existing sewer north of Avenue G; BROOKLYN AVENUE, between Avenue G and Avenue H; AVENUE D, from East Twenty-third street to Rogers avenue; EAST TWENTY-SIXTH STREET, from Clarendon road to Avenue D; EAST TWENTY-FIFTH STREET between Clarendon road and Avenue D; EAST THIRTY-FOURTH STREET, from Flatbush Water Works to Avenue F; EAST TWENTY-SECOND STREET, from Avenue G north to the end of the existing sewer; FLATBUSH AVENUE, from Nostrand avenue to Avenue N, Avenue H, from Flatbush avenue to East Thirty-second street; EAST THIRTY-SECOND STREET, from Flatbush avenue to Avenue H; EAST THIRTY-FOURTH STREET, from Avenue I to Flatbush avenue; AVENUE I, from Flatbush avenue to East Thirty-fourth street; AVENUE K, from Flatbush avenue to East Fortieth street; FLATLANDS AVENUE, from Flatbush avenue to East Fortieth street; FLATBUSH AVENUE, east side, from Avenue N to East Forty-fifth street; SEWER BASINS, north and south sides of Avenue G; at the Brighton Beach Railroad; at the northeast and northwest corners of EAST THIRTY-SECOND STREET and Avenue D; FARRAGUT ROAD, at the northeast and northwest corners of East Twenty-eighth street; southeast and southwest corners of EAST TWENTY-NINTH STREET; all four corners of NOSTRAND AVENUE; southeast and southwest corners of EAST THIRTY-FIRST STREET; southeast and southwest corners of EAST THIRTY-SECOND STREET; southwest corner of EAST THIRTY-FOURTH STREET; sewer in NEWKIRK AVENUE, between East Twenty-sixth street and Rogers avenue; EAST TWENTY-EIGHTH STREET, between Avenue F and Flatbush avenue.

Both sides of Avenue D, from East Twenty-third street to East Thirty-seventh street; both sides of Newkirk avenue, from East Twenty-sixth to East Thirty-sixth street; both sides of Foster avenue (Ditmas avenue), from Flatbush avenue to East Thirty-seventh street; both sides of Avenue F, from Ocean avenue to Paerdegat avenue; both sides of Avenue G, from Coney Island avenue to Paerdegat avenue; both sides of Irvington place, from Brighton Beach Railroad to East Seventeenth street; both sides of DeKoven court, Waldorf court and Wellington court, from East Fourteenth to East Seventeenth street; both sides of Germania place, from Amersfort place to Flatbush avenue; both sides of Avenue H, from Ocean parkway to Paerdegat avenue; both sides of Avenue I, from Ocean parkway to Paerdegat avenue; both sides of Avenue J, from Ocean parkway to Paerdegat avenue; both sides of Avenue K, from Ocean parkway to Ralph avenue; both sides of Avenue L, from Ocean parkway to Flatbush avenue, and from Troy avenue to Ralph avenue; both sides of Hubbard place and Alton place, from Flatbush avenue to East Fortieth street; both sides of Overhaugh place, from Flatbush avenue to Troy avenue; both sides of Lott place, from Flatbush avenue to East Fortieth street; both sides of Kings highway, from East Thirty-eighth street to Flatbush avenue; both sides of Avenue M, from Ocean parkway to Flatlands avenue, and from Flatbush avenue to Ralph avenue; both sides of Avenue N, from Ocean parkway to Flatlands avenue, and from Flatbush avenue to Ralph avenue; north side of Avenue O, from Ocean parkway to East Ninth street; both sides of Avenue O, from East Ninth street to Mansfield place; north side of Avenue O, from Mansfield place to Flatlands avenue; south side of Avenue O, from East Twenty-fourth street to East Twenty-eighth street; both sides of Flatlands avenue, from East Twenty-eighth street to Paerdegat avenue; north side of Flatlands avenue, from East Twenty-fourth to East Twenty-eighth street; north side of Avenue P, from Ryder street to Henderson street; both sides of Avenue P, from Henderson street to Flatbush avenue; north side of Avenue Q, from Henderson street to Flatbush avenue; both sides of East Twenty-ninth street, from Canarsie lane to Clarendon road; east side of Ocean parkway, from Avenue O to Foster avenue; both sides of East Seventh, East Eighth, East Ninth, East Tenth streets, Coney Island avenue, Westminster road (East Twelfth street), Argyle road (East Thirteenth street), Rugby road (East Fourteenth street), from Avenue O to Foster avenue; both sides of East Fifteenth street and East Sixteenth street, from Avenue O to Avenue H; both sides of East Seventeenth, East Eighteenth, East Nineteenth streets, Ocean avenue, East Twenty-first street, Elmore place (East Twenty-second street), Delamere place (East Twenty-third street), Mansfield place (East Twenty-fourth street) and East Twenty-fifth street, from Avenue O to Foster avenue; east side of Bedford avenue, from Avenue C to Avenue D; both sides of East Twenty-fifth street, from Avenue D to Clarendon road; both sides of East Twenty-sixth street, from Clarendon road to Newkirk avenue; both sides of East Twenty-sixth street, from Avenue O to Flatbush avenue, and from Avenue C to Flatbush avenue; both sides of Rogers avenue, from Clarendon road to Flatbush avenue; both sides of East Twenty-seventh street, from Avenue O to Avenue G; both sides of Amersfort place, from Avenue H to Avenue F; both sides of Kenilworth place, from Germania place to Avenue F; both sides of East Twenty-eighth street, from Clarendon road to Flatbush avenue, and from Amersfort place to Avenue O; both sides of East Twenty-ninth street, from Canarsie lane to Flatbush avenue, and from Amersfort place to Flatlands avenue; both sides of Nostrand avenue, from Clarendon road to Flatlands avenue; both sides of East Thirty-first street, from Clarendon road to Flatlands avenue; both sides of East Thirty-second street, from Clarendon road to Newkirk avenue, and from Paerdegat avenue to Flatlands avenue; both sides of New York avenue, from Clarendon road to Foster avenue, and from Paerdegat avenue to Flatlands avenue; both sides of East Thirty-fifth street, from Clarendon road to Foster avenue, and from Paerdegat avenue to Flatlands avenue; both sides of Brooklyn avenue (East Thirty-sixth street), from Clarendon road to Foster avenue, and from Paerdegat avenue to Flatlands avenue; both sides of East Thirty-seventh street, from Paerdegat avenue to Flatlands avenue; both sides of Ryder street, from Kings highway to Avenue M; both sides of Lotts or Kimballs lane, from Flatlands avenue to Avenue P; both sides of East Thirty-eighth street, from Paerdegat avenue to Flatlands avenue; both sides of East Thirty-ninth street, from Paerdegat avenue to Avenue K; both sides of East Fortieth street, from Paerdegat avenue to Flatlands avenue; both sides of Albany avenue and East Forty-first street, from Paerdegat avenue to Flatlands avenue; both sides of East Forty-second street, from Paerdegat avenue to Avenue K; both sides of East Forty-third street, from Paerdegat avenue to Flatbush avenue; both sides of Troy avenue, from Paerdegat avenue to Flatbush avenue; both sides of East Forty-fifth street, from Paerdegat avenue to Flatbush avenue; both sides of East Forty-sixth street, from Avenue G to Flatbush avenue; both sides of Schenectady avenue, from Avenue G to Avenue N; both sides of East Forty-eighth, East Forty-ninth streets, Utica avenue, East Fifty-first, East Fifty-second, East Fifty-third, East Fifty-fourth, East Fifty-fifth and East Fifty-sixth streets, from Avenue G to Avenue N; both sides of East Fifty-seventh, East Fifty-eighth and East Fifty-ninth streets, from Paerdegat avenue to Avenue N; both sides of Ralph avenue, from Flatlands avenue to Avenue N; both sides of Flatbush avenue, from Foster avenue to Avenue Q; both sides of Paerdegat avenue, from Albany avenue to Flatlands avenue; south side of Paerdegat avenue, from Flatlands avenue to Avenue J; both sides of East Sixty-sixth street, from Ralph avenue to Avenue M; both sides of East Seventieth street, from Avenue K to Ralph avenue; east side of East Sixty-ninth street, from Avenue K to Ralph avenue; both sides of East Thirty-ninth street, from Avenue K to Hubbard place, and from Overbaugh place to Lott place; both sides of East Seventy-third street, from Avenue K to Avenue I; both sides of East Thirty-fourth street, from Clarendon road to Foster avenue (Ditmas avenue), and from Paerdegat avenue to Flatlands avenue, being all the lands included within Sewerage District, Map Y, the detailed maps of which are on file in the office of the Board of Assessors.

—that the same was confirmed by the Board of Revision of Assessments on November 23, 1909, and entered November 23, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics' Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 22, 1910, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n26,d9

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the BOROUGH OF BROOKLYN:

EIGHTH AND THIRTIETH WARDS, SECTIONS 3 AND 17.

SEWER in FORTIETH STREET, between Seventh and New Utrecht avenues, and in EIGHTH AVENUE, between Thirty-ninth and Fortieth streets. Area of assessment: Both sides of Fortieth street, between Seventh and New Utrecht avenues; east side of Seventh avenue, and both sides of Eighth and Ninth avenues, between Thirty-ninth and Forty-first streets.

TWENTY-SECOND WARD, SECTION 3.

ELEVENTH AVENUE—SEWER, between Eighteenth street and Terrace place. Area of assessment: Both sides of Eleventh avenue, between Eighteenth street and Terrace place, and both sides of Nineteenth street, between Tenth and Eleventh avenues.

TWENTY-FOURTH WARD, SECTION 5.

SEWER in PARK PLACE, between Buffalo and Rochester avenues, and BASIN at the southwest corner of BUFFALO AVENUE and PARK PLACE. Area of assessment: Both sides of Park place, from Buffalo avenue to Rochester avenue, and west side of Buffalo avenue, from Park place to Sterling place.

TWENTY-NINTH WARD, SECTION 16.

ARGYLE AND DORCHESTER ROADS—SEWER BASIN at the northeast corner. Area of assessment: East side of Argyle road and west side of Rugby road, between Dorchester and Cortelyou roads, and north side of Dorchester road, between Rugby and Argyle roads.

MARTENSE STREET — SEWER, between Flatbush and Bedford avenues. Area of assessment: Both sides of Martense street, between Flatbush and Bedford avenues; east side of Flatbush avenue, between Martense street and Lenox road, and both sides of Linden avenue, between Flatbush and Bedford avenues.

THIRTIETH WARD, SECTION 18.

FIFTH AVENUE—GRADING LOTS, west side, between Sixty-second and Sixty-first streets. Area of assessment: Lots Nos. 40 and 41, Block 5791, on the west side of Fifth avenue, between Sixty-first and Sixty-second streets.

THIRTIETH WARD, SECTION 19.

EIGHTY-FOURTH STREET—PAVING, between Eighteenth and Twenty-first avenues. Area of assessment: Both sides of Eighty-fourth street, from Eighteenth to Twenty-first avenues, and to the extent of half the block at the intersecting avenues.

BENSON AVENUE AND BAY TWENTIETH STREET—SEWER BASINS at the north and west corners, and BAY TWENTIETH STREET—SEWER, between Bath and Benson avenues. Area of assessment: Northwest side of Bay Twentieth street, from Eighty-sixth street to Bath avenue; both sides of Benson avenue, from Bay Nineteenth street to Bay Twentieth street,

—that the same were confirmed by the Board of Assessors on November 23, 1909, and entered November 23, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics' Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 22, 1910, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

HERMAN A, METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n26,d9

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named avenue in the BOROUGH OF THE BRONX:

TWENTY-FOURTH WARD, SECTIONS 12 AND 13.

MOUNT VERNON AVENUE—OPENING, from Jerome avenue to the northern boundary of The City of New York. Confirmed November 4, 1909, and entered November 23, 1909. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the westerly prolongation of a line drawn parallel to East Two Hundred and Thirty-third street and distant 300 feet southerly therefrom, with a line drawn parallel to the westerly line of Jerome avenue and distant 300 feet westerly therefrom; running thence northerly along said parallel line to its intersection with the northern boundary line of The City of New York; thence easterly along said boundary line to its intersection with the northwesterly line of Vireo avenue; thence southwesterly along said northwesterly line to the middle line of the block between East Two Hundred and Thirty-ninth street and East Two Hundred and Thirty-eighth street; thence westerly along said middle line to the middle line of the blocks between Vireo avenue and Martha avenue; thence southerly along said last mentioned middle line to the middle line of the blocks between East Two Hundred and Thirty-seventh street and East Two Hundred and Thirty-sixth street; thence westerly along said last mentioned middle line to the middle line of the blocks between Martha avenue and Katonah avenue; thence southerly along said last mentioned middle line to the middle line of the block between East Two Hundred and Thirty-sixth street and East Two Hundred and Thirty-fifth street; thence westerly along said last mentioned middle line to a line drawn parallel to the easterly line of Katonah avenue and distant 100 feet easterly therefrom; thence southerly along said parallel line to the middle line of the blocks between East Two Hundred and Thirty-fifth street and East Two Hundred and Thirty-fourth street; thence westerly along said middle line to the middle line of the block between Katonah avenue and Kepler avenue; thence southerly along said last mentioned middle line and its southerly prolongation to a line drawn parallel to the southerly line of East Two Hundred and Thirty-third street and distant 300 feet southerly therefrom; thence westerly along said parallel line to the point or place of beginning.

The above entitled assessment was entered on the date hereinbefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents. Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 22, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n26,d9

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF QUEENS:

SECOND WARD.

FLUSHING AVENUE—TEMPORARY SEWER, from Brooklyn Borough line to Atlantic street. Area of assessment: Both sides of Flushing avenue, from Brooklyn Borough line to Atlantic street.

—that the same was confirmed by the Board of Revision of Assessments November 23, 1909, and entered November 23, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at the Hackett Building, No. 51 Jackson avenue, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. until 12 m., and all payments made thereon on or before January 22, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A, METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n26,d9

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 11.

EAST ONE HUNDRED AND SEVENTIETH STREET—PAVING AND CURBING, between Franklin avenue and Boston road. Area of assessment: Both sides of One Hundred and Seventieth street, from Franklin avenue to Boston road, and to the extent of half the block at the intersecting streets.

—that the same was confirmed by the Board of Revision of Assessments on November 23, 1909, and entered November 23, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 22, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the

date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n26,d9

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF THE BRONX:

TWENTY-FOURTH WARD, ANNEXED TERRITORY.

EAST TWO HUNDRED AND THIRTY-THIRD STREET—REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND PLACING FENCES, from the Bronx boulevard to Baychester avenue. Area of assessment: Both sides of Two Hundred and Thirty-third street, from the Bronx boulevard to Baychester avenue, and to the extent of half the block at the intersecting streets and avenues.

—that the same was confirmed by the Board of Revision of Assessments on November 18, 1909, and entered November 18, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 17, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n20,d4

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF QUEENS:

FIRST WARD.

ACADEMY STREET—PAVING, from Freeman avenue to Wilbur avenue. Area of assessment: Both sides of Academy street, from Freeman avenue to Wilbur avenue, and to the extent of half the block at the intersecting avenues.

—that the same was confirmed by the Board of Revision of Assessments November 18, 1909, and entered November 18, 1909, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at the Hackett Building, No. 51 Jackson avenue, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. until 12 m., and all payments made thereon on or before January 17, 1910, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when the above assessment became a lien to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n20,d4

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF the Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property affected by the following assessments for LOCAL IMPROVEMENTS in the EIGHTH WARD OF THE BOROUGH OF BROOKLYN, pursuant to the provisions of chapter 365 of the Laws of 1889, and the act amendatory thereof, and chapter 378 of the Laws of 1897, and chapter 466 of the Laws of 1901 amendatory thereof, to wit:

FORTY-FIRST STREET—GRADING AND PAVING, from Second avenue to Third avenue. Area of assessment: Both sides of Forty-first street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-FIRST STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-first street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-THIRD STREET—GRADING, from Fifth avenue to the old city line (excepting from Fifth avenue to Seventh avenue). Area of assessment: Both sides of Forty-third street, from Seventh avenue to the old city line, and to the extent of one-half the blocks on Seventh and Eighth avenues.

FORTY-FOURTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-fourth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-FOURTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-fourth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-FIFTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-fifth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-SIXTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-sixth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-SIXTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-sixth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-SEVENTH STREET — GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-seventh street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-EIGHTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-eighth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues; also Lots Nos. 22 to 33, inclusive, of Block 225.

FORTY-EIGHTH STREET—GRADING, from Fifth avenue to old City line. Area of assessment: Both sides of Forty-eighth street, between Fifth avenue and the old City line, and to the extent of one-half of the blocks on the intersecting and terminating avenues; also Lots Nos. 23 to 33, inclusive of Block 225; also Lots Nos. 9 to 12, inclusive, of Block 229; also Lot No. 39, of Block 249.

FIFTIETH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Fiftieth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SECOND STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-second street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues; also Lots Nos. 104 and 111 of Block 222.

FIFTY-THIRD STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-third street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-FOURTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Fifty-fourth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-FIFTH STREET — GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-fifth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SEVENTH STREET—GRADING AND PAVING, between First avenue and Second avenue. Area of assessment: Both sides of Fifty-seventh street, between First and Second avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SEVENTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Fifty-seventh street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SEVENTH STREET—GRADING AND PAVING, from Fifth to Sixth avenue. Area of assessment: Both sides of Fifty-seventh street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

SIXTH AVENUE—GRADING AND PAVING, from Thirty-ninth street to Forty-first street. Area of assessment: Both sides of Sixth avenue, between Thirty-ninth and Forty-first streets, and to the extent of one-half the blocks on the intersecting and terminating streets.

SIXTH AVENUE—GRADING, from Thirty-ninth street to the old city line. Area of assessment: Both sides of Sixth avenue, from Thirty-ninth street to the old city line, and to the extent of one-half the blocks on the following named intersecting streets, viz.: Fortieth, Forty-first, Forty-fourth to Forty-eighth, inclusive; Fiftieth to Fifty-ninth, inclusive.

SIXTH AVENUE—GRADING AND PAVING, from Forty-fourth street to old city line. Area of assessment: Both sides of Sixth avenue, from Forty-fourth street to old city line, and to the extent of one-half the blocks on the intersecting streets, excepting Forty-ninth street.

SEVENTH AVENUE—GRADING, from Thirty-ninth street to old city line. Area of assessment: Both sides of Seventh avenue, from Thirty-ninth street to the old city line, and to the extent of one-half the blocks on the intersecting streets west of Seventh avenue; also to the same extent on the intersecting streets between Thirty-ninth and Fifty-second streets, east of Seventh avenue; also on the intersecting streets from Fifty-second to Fifty-sixth street, between Seventh avenue and the city line.

—that the same were confirmed by the Supreme Court, Kings County, on November 9, 1900, and that the Board of Assessors of The City of New York thereafter levied and assessed the "Tenth Installment" thereon, and transmitted the same to the Comptroller on November 18, 1909, for entry and collection.

That the 'Tenth Installment" in each case is now due and payable, and unless the amount thereof assessed for benefit on any person or property shall be paid within sixty days after December 1, 1909, interest shall be charged, collected and received thereon at the rate of seven per cent. per annum, to be calculated from December 1, 1909, to the date of payment.

The owner of any parcel of land assessed for any of the foregoing assessments may, pursuant to the provisions of chapter 365, Laws of 1889, as amended by chapter 452, Laws of 1890; chapter 520, Laws of 1895, and chapter 736, Laws of 1896, at any time after the first installment becomes due and payable, pay all the installments not levied of said assessment, and the same will be thereupon canceled.

The above assessments are payable to the Collector of Assessments and Arrears, at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics' Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 30, 1910, will be exempt from interest as above provided.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n19,d3

Interest on City Bonds and Stock.

INTEREST ON BONDS AND STOCK OF THE CITY OF NEW YORK.

THE INTEREST DUE ON JANUARY 1, 1910, on the Registered Bonds and Stock of The City of New York will be paid on January 3, 1910, by the Comptroller, at his office, Room 85, Stewart Building, corner of Broadway and Chambers street.

The Transfer Books thereof will be closed from December 15, 1909, to January 3, 1910.

The interest due on January 1, 1910, on the Coupon Bonds of the late City of Brooklyn will be paid on January 3, 1910, by the Nassau National Bank of Brooklyn, No. 26 Court street.

The interest due January 1, 1910, on the Coupon Bonds of Corporations in Queens and Richmond Counties will be received on January 3, 1910, for payment by the Comptroller at his office, Room 85, Stewart Building, corner of Broadway and Chambers street.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

d1,31

Sureties on Contracts.

UNTIL FURTHER NOTICE SURETY COMpanies will be accepted as sufficient upon the following contracts to the amounts named:

Supplies of Any Description, Including Gas and Electricity.

One company on a bond up to $50,000.

When such company is authorized to write that amount as per letter of Comptroller to the surety companies, dated September 16, 1907.

Construction.

One company on a bond up to $25,000.

Including regulating, grading, paving, sewers, maintenance, dredging, construction of parks, parkways, docks, buildings, bridges, tunnels, aqueducts, repairs, heating, ventilating, plumbing, etc., etc.

When such company is authorized to write that amount as per letter of Comptroller to the surety companies, dated September 16, 1907.

Asphalt, Asphalt Block and Wood Block Pavements.

Two companies will be required on any and every bond up to amount authorized by letter of Comptroller to the surety companies, dated September 16, 1907.

Dated June 19, 1909.

H. A. METZ, Comptroller.

Corporation Sales.

CORPORATION SALE OF REAL ESTATE.

PUBLIC NOTICE IS HEREBY GIVEN THAT the Commissioners of the Sinking Fund of The City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction on

TUESDAY, DECEMBER 21, 1909,

at 12 o'clock m., at the Comptroller's office, No. 280 Broadway, Borough of Manhattan, City of New York, all the right, title and interest of The City of New York in and to the following described property which it has by virtue of a lease from Cornelius Furgueson, Supervisor of the Town of New Utrecht, to the Town of New Utrecht, in the County of Kings, dated September 7, 1886, which lease is recorded in the Register's office of the County of Kings, in Liber 1715 of Conveyances, page 143, on February 8, 1887:

All those three certain lots, pieces or parcels of land which were sold for the non-payment of an assessment for the opening of Ninety-second street, by the assessment numbers 223, 224 and 225, respectively, assessed to Peter White, for the sum of one hundred and five dollars and fifty-nine cents ($105.59).

The minimum or upset price at which the interest of the City in and to the premises to be sold is appraised and fixed by the Commissioners of the Sinking Fund at two hundred and sixty-five dollars and fifty-six cents ($265.56).

The purchaser in addition thereto pay the further sum of one hundred dollars ($100) for the expense of examination, advertising, etc. The sale of the said premises is to be made on the following

TERMS AND CONDITIONS.

The highest bidder will be required to pay the full amount of his bid or purchase money and the $100 on such parcel, as above provided for. The quitclaim deed for the above described premises to be delivered within thirty days from the date of sale, subject to all incumbrances thereon, and further, that the successful bidder shall, before the delivery of said deed, furnish evidence that all taxes, assessments and water rates shall have been paid before said deed shall be delivered.

The Comptroller may at his option resell the property if the successful bidder shall fail to comply with the terms of sale, and the person failing to comply therewith will be held liable for any deficiency which may result from any such resale.

The right to reject any bid is reserved.

By order of the Commissioners of the Sinking Fund, under resolution adopted at a meeting of the Board held November 18, 1909.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 30, 1909.

n30,d21

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE COMMISsioner of the Department of Water Supply, Gas and Electricity, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for pipe line purposes in the

Counties of Queens and Nassau.

Being all the buildings, parts of buildings, etc., now standing within the lines of the property acquired for the purposes of the 72-inch pipe line from Clear Stream to Amityville, Long Island, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held June 23, 1909, the sale by sealed bids of the above-described buildings and appurtenances thereto will be held by direction of the Comptroller on

TUESDAY, DECEMBER 14, 1909,

in lots and parcels and in manner and form as follows:

Parcel No. 172—At Rockville Centre. Former owner, Eva Clifford; west side of Village avenue, opposite Observer street, two-story frame store and dwelling.

Parcel No. 244—At Baldwin. Former owner, J. W. Pearsall; southeast corner of Grand and Railroad avenues, one-story frame real estate office.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 14th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 14, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances, between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer

in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Counties of Queens and Nassau, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made water-tight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 22, 1909.

n27,d14

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE BRIDGE COMmissioner, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale, by sealed bids, all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for bridge purposes, in the

Borough of Manhattan.

Being the buildings, parts of buildings, etc., standing within the lines of property acquired for the purposes of the Manhattan Bridge and now remaining on the block bounded by the Bowery, Bayard, Chrystie and Canal streets, and being more particularly designated as Nos. 11, 13, 15, 17, 19, 21 and 23 and 25 Chrystie street, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held May 26, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

MONDAY, DECEMBER 6, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1—No. 11 Chrystie street, five-story brick building.

Parcel No. 2—No. 13 Chrystie street, six-story brick building.

Parcel No. 3—No. 15 Chrystie street, six-story and basement brick building.

Parcel No. 4—No. 17 Chrystie street, six-story and basement brick building.

Parcel No. 5—No. 19 Chrystie street, six-story and basement brick building.

Parcel No. 6—No. 21 Chrystie street, six-story brick building.

Parcel No. 7—Nos. 23 and 25 Chrystie street, six-story and basement brick building.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 6th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

BIDS WILL BE RECEIVED FOR THE PURCHASE OF EACH BUILDING SEPARATELY OR FOR THE WHOLE NUMBER OF BUILDINGS OFFERED AS ONE PARCEL, OR FOR GROUPS OF TWO OR MORE ADJOINING BUILDINGS, AND THE COMPTROLLER RESERVES THE RIGHT TO DISPOSE OF THE BUILDINGS BY WHICHEVER METHOD HE MAY DEEM MOST ADVANTAGEOUS TO THE CITY OF NEW YORK.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 6, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances, between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than 2 feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Borough of Manhattan, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beam holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n24,d6

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of Queens, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for street opening purposes in the

Borough of Queens.

Being all the buildings, parts of buildings, etc., standing within the lines of William street, from Graham avenue to Thirteenth street, in the First Ward of the Borough of Queens, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund adopted at a meeting held November 18, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

FRIDAY, DECEMBER 10, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1—One and one-half story frame building and shed on William street, between Webster and Washington avenues.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 10th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 10, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings or their appurtenances between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Borough of Queens, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made water-tight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n24,d10

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

PUBLIC NOTICE IS HEREBY GIVEN that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York in the

Borough of Brooklyn.

Being the two two-story and basement brick buildings known as Nos. 157 and 159 Eleventh street, in the Borough of Brooklyn, and which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held November 18, 1909, the sale by sealed bids of the above-described buildings and appurtenances thereto will be held by direction of the Comptroller on

WEDNESDAY, DECEMBER 15, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Lot No. 1—Two two-story and basement brick buildings and appurtenances thereto known as Nos. 157 and 159 Eleventh street.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 15th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 15, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings or their appurtenances between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed, in compliance with the directions of the Bureau of Sewers, Borough of Brooklyn, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made water-tight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n24,d15

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of Brooklyn, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale, by sealed bids, all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for street opening purposes in the

Borough of Brooklyn.

Being all the buildings, parts of buildings, etc., standing within the lines of Brooklyn avenue, between Clarkson street and the northerly side of Canarsie lane, and between the southerly side of Avenue C and Paerdegat Basin, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held November 18, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

THURSDAY, DECEMBER 9, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1—Two and one-half story frame house and outhouses on Brooklyn avenue, south of Lenox road.

Parcel No. 2—All fences within the lines of Brooklyn avenue, between Church avenue and Snyder avenue.

Parcel No. 3—Part of two and one-half story frame house and two small two-story frame houses, with fences, on the south side of Snyder avenue, within the lines of Brooklyn avenue.

Parcel No. 4—At the northwest corner of Brooklyn and Tilden avenues, part of one-story frame office building and part of two-story frame house north of same; also part of two sheds and one outhouse.

Parcel No. 5—Part of one-story frame extension to two-story frame hotel at the northeast corner of Tilden avenue and Brooklyn avenue, and part of shed adjoining same.

Parcel No. 6—Part of one-story frame extension to three-story frame hotel; part of one-story frame shed, one-story frame building and part of one-story frame building, with fences, within the lines of Brooklyn avenue, south of Tilden avenue.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 9th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 9, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances, between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Borough of Brooklyn, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made water-tight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

n23,d9

CORPORATION SALE OF REAL ESTATE.

D. & M. Chauncey Real Estate Company, Ltd., Auctioneers.

PUBLIC NOTICE IS HEREBY GIVEN that, pursuant to a resolution adopted by the Board of Estimate and Apportionment on the 12th day of November, 1909, and also by virtue of a resolution adopted by the Commissioners of the Common Lands of the late Town of Gravesend, adopted November 12, 1909, and in accordance with the provisions of law as enacted by chapter 638, Laws of 1895, as amended by chapter 69, Laws of 1897, and as further amended by chapter 472, Laws of 1897, and chapter 516, Laws of 1909, the Comptroller of The City of New York will offer for sale at public auction on

WEDNESDAY, DECEMBER 29, 1909,

at 12 o'clock m, at the Brooklyn Real Estate Exchange, No. 189 Montague street, in the City of Brooklyn, the following described real estate belonging to and being part of the Common Lands of the Town of Gravesend, located in the Borough of Brooklyn, being known and distinguished as Boulevard Lot No. 10 on the map of the Common Lands of the Town of Gravesend, and bounded and described as follows, viz.:

Beginning at a point on the westerly side of Ocean parkway, distant 1,024 feet southerly from the southwesterly corner of Ocean parkway and Sheepshead Bay road, which point of beginning is where the westerly side of Ocean parkway is intersected by the southerly line of Lot No. 11, as shown on a map of Common Lands at Coney Island, belonging to the Town of Gravesend, surveyed 1878, William Kowalski, City Surveyor, running thence westerly along the southerly side of Lot No. 11 as laid down on said map at right angles to said Ocean parkway 200 feet to the easterly side of West First street; thence southerly along the easterly side of West First street 100 feet to the northerly side of Lot No. 9 as laid down on said map; thence easterly along the northerly side of said Lot No. 9 and at right angles to Ocean parkway 200 feet to the westerly side of Ocean parkway; thence northerly along the westerly side of Ocean parkway 100 feet to the point or place of beginning, being Lot No. 10 on the above mentioned map, excepting so much as was taken for the widening of West First street.

The said premises are sold subject to the restrictive clauses and conditions as respectively described in chapter 861, Laws of 1869; chapter 726, Laws of 1872; chapter 583, Laws of 1874; chapter 702, Laws of 1897, and of such other of the Laws of the State of New York as may affect the portion of the said premises fronting on the boulevard as to court yards, tree planting or other matters appertaining thereto.

The sale of the said premises to be made by the Comptroller in the following manner:

Lot A in Parcel 1 will be sold at public auction at an upset price of $7,000, the said sale not to include the sale of the building on the premises, the owner of the same having sixty days to remove the building therefrom from the date of the sale. That Lot B in Parcel 1 be sold at public auction at an upset price of $9,000, and that immediately the two properties shall then be put up as one parcel 100 by 200 feet, and if the amount received for the sale of Parcel 1 in its entirety be not equivalent to the amount received for Parcels A and B separately, then the said separate bids shall be accepted. If, however, the amount of said sale for the entire parcel be greater than the amount of the bids for the parcels separately, then the sale shall go to the person bidding the highest amount on the parcel in its entirety.

The minimum or upset price at which the said property shall be sold is fixed as follows:

For Parcel A, $7,000; for Parcel B, $9,000, aggregating the sum of $16,000, and such sale is made upon the following

TERMS AND CONDITIONS.

Lots A and B, inclusive, herein described, will be offered first in two separate parcels, as separately described, and then the same will be offered in one entire parcel, and unless the prices bid for the said Parcels A and B, inclusive, aggregate more than the price bid for the same as one entire parcel, the bid for the same as one entire parcel will be accepted. In the event, however, that the said aggregate amount of bids for said Lots A and B, inclusive, shall exceed the amount of the bid for same as one entire parcel, said separate bids shall be accepted.

The highest bidder will be required to pay 10 per cent. of the amount of his bid, together with the auctioneer's fees at the time of the sale; 20 per cent. upon the delivery of the deed, which shall be thirty days from the date of the sale; the remaining 70 per cent. either to be paid on the date of the delivery of the deed, or at the option of the purchaser to remain on bond and mortgage for five years, with interest at the rate of 6 per cent. per annum, payable semi-annually. The mortgage to contain the customary thirty days' interest and ninety days' tax, assessment, insurance and receiver's clauses. The bond and mortgage may be paid off at any time within the term thereof on giving thirty days' notice to the Comptroller, or may be paid in installments of not less than $5,000 at any date when interest is due, or on thirty days' notice.

The bond and mortgage will be prepared by the Corporation Counsel and the sum of $12.50 will be charged for drawing, acknowledging and recording the same.

The property is to be sold free and clear of taxes, assessments and water rates and sales for the same. The deed delivered by the City to be a quitclaim deed, granting the right, title and interest of The City of New York in and to the property described and sold.

The Comptroller has been directed, and may at his option, resell the property if the successful bidder or bidders shall fail to comply with the terms of sale, and the person so failing to comply with said terms will be held liable for any deficiency which may result from any such resale.

The right to reject any bid is also reserved by the Comptroller, although 10 per cent. of the purchase money may have been paid down at the time of the sale and a receipt given therefor.

Maps of said real estate may be seen on application at the Comptroller's office, Stewart Building, No. 280 Broadway, Manhattan.

By order of the Commissioners of the Common Lands of the late Town of Gravesend, under resolution adopted November 12, 1909, and also by order of the Board of Estimate and Apportionment, under resolution adopted November 12, 1909.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 20, 1909.

n22,d29

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE BOARD OF Education, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for school site purposes in the

Borough of Manhattan.

Being all the buildings, parts of buildings, etc., known as Nos. 368, 370 and 372 Pleasant avenue, and Nos. 505, 507 and 509 East One Hundred and Nineteenth street, located on the east side of Pleasant avenue, 100 feet 11 inches north of East One Hundred and Nineteenth street, and on the north side of East One Hundred and Nineteenth street, 108 feet east of Pleasant avenue, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held November 18, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

WEDNESDAY, DECEMBER 8, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1—Three three-story brick houses, Nos. 368, 370 and 372 Pleasant avenue.

Parcel No. 2—Three three-story brick houses, Nos. 505, 507 and 509 East One Hundred and Nineteenth street.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 8th day of December, and then publicly opened for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after success

ful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 8, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances, between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Borough of Manhattan, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damge and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beam-holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

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CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE BOARD OF Education, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York, acquired by it for school site purposes in the

Borough of Brooklyn.

Being all the buildings, parts of buildings, etc., situated on that certain plot of ground located on the easterly side of Sanford street 140 feet south of Willoughby avenue, having a frontage of 197.6 feet on Sanford street and 200 feet on Nostrand avenue, with a depth of 200 feet, and being known as Nos. 207 and 209 Sanford street, in the Borough of Brooklyn, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held November 18, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

TUESDAY, DECEMBER 7, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1. Two three-story and basement frame houses, known as Nos. 207 and 209 Sanford street.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 7th day of December, and then publicly opened, for the sale for removal of the above described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 7, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date, to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings, or their appurtenances, between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers, Borough of Brooklyn, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beam-holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1909.

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CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of The Bronx, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids all the buildings, parts of buildings, etc., standing upon property owned by The City of New York acquired by it for street opening purposes in the

Borough of The Bronx.

Being all the buildings, parts of buildings, etc., standing within the lines of Castle Hill avenue, from West Farms road to the public place at its southerly terminus, in the Twenty-fourth Ward of the Borough of The Bronx, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund, adopted at a meeting held October 20, 1909, the sale by sealed bids of the above described buildings and appurtenances thereto will be held by direction of the Comptroller on

FRIDAY, DECEMBER 3, 1909,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1—Southeast corner of West Farms road (Walker avenue) and Castle Hill avenue, part of three-story frame hotel. Cut 25.2 feet on north side by 21.3 feet on south side by 36.1 feet. One-story frame shop and board fence.

Parcel No. 2—At Castle Hill avenue and Glover street (Grace avenue), part of two-story and basement frame and brick house and stoop. Cut 27.6 feet on north side by 24.4 feet on south side by 21 feet. Part of frame barn. Cut 15 feet on north side by 28.4 feet on west side.

Parcel No. 3—Opposite Parcel No. 2, part of porch of two and one-half story frame house. Cut 1.5 feet on north side by 0.5 foot on south side by 21.3 feet.

Parcel No. 4—Part of two-story frame house No. 1542 Castle Hill avenue. Cut 36.5 feet on north and south sides by 21.4 feet.

Parcel No. 5—Part of three-story and basement frame house No. 1532 Castle Hill avenue. Cut 35.5 feet on south and north sides by 21.3 feet.

Parcel No. 5a—Part of three-story frame house No. 1530 Castle Hill avenue. Cut 46.2 feet on north and south sides by 23.1 feet.

Parcel No. 6—Three-story frame house No. 1516 Castle Hill avenue.

Parcel No. 7—Part of two-story frame house No. 1514 Castle Hill avenue. Cut 34.8 feet on north and south sides by 22.1 feet.

Parcel No. 8—Two and one-half story frame house No. 1508 Castle Hill avenue.

Parcel No. 9—Two-story frame house No. 1504 Castle Hill avenue.

Parcel No. 10—Part of two and one-half story frame house No. 1360 Castle Hill avenue. Cut 31.2 feet on north side by 33.9 feet on south side by 22.2 feet on west side by 26.9 feet on east side.

Parcel No. 11—Part of two-story frame house No. 1352 Castle Hill avenue. Cut 28.5 feet on north and south sides by 21.2 feet.

Parcel No. 12—Part of two-story frame house No. 1350 Castle Hill avenue. Cut 28.5 feet on north and south sides by 21.2 feet.

Parcel No. 13—Two and one-half story frame house No. 1340 Castle Hill avenue.

Parcel No. 14—Part of two and one-half story frame building at the southwest corner of Westchester avenue and Castle Hill avenue. Cut 29.4 feet on north side by 28 feet on south side by 28.5 feet. Also one-story frame store and stoop 13 feet by 28.5 feet. Also one-story frame building 44.6 feet on north side by 36 feet on south side by 101.4 feet.

Parcel No. 15—Part of two-story frame house at northwest corner of Fourteenth street and Castle Hill avenue (facing on Fourteenth street). Cut 14.6 feet on north side by 10.7 feet on south side by 41.6 feet.

Parcel No. 16—Part of two-story frame house No. 1260 Castle Hill avenue. Cut 21.7 feet on north side by 23.6 feet on south side by 20.2 feet.

Parcel No. 17—Part of three-story frame house and store No. 1239 Castle Hill avenue. Cut 18.1 feet on north and south sides by 19.8 feet.

Parcel No. 18—Part of three-story frame house and store No. 1237 Castle Hill avenue. Cut 18 feet on north and south sides by 19.8 feet.

Parcel No. 19—Part of two and one-half story frame house No. 1235 Castle Hill avenue. Cut 2.3 feet on north side by 2 feet on south side by 20.2 feet.

Parcel No. 20—Part of three-story frame house and store No. 1219 Castle Hill avenue. Cut 22.1 feet on north and south sides by 22.1 feet.

Parcel No. 21—Part of two-story frame house No. 1217 Castle Hill avenue. Cut 15.9 feet on north and south sides by 21.3 feet.

Parcel No. 22—Part of two-story frame house No. 1213 Castle Hill avenue. Cut 16 feet on north and south sides by 21.3 feet.

Parcel No. 23—Part of two-story frame house and store, No. 1211 Castle Hill avenue. Cut 20 feet on north and south sides by 21.3 feet.

Parcel No. 24—Part of two and one-half story frame house, No. 1203 Castle Hill avenue. Cut 9.1 feet on north side by 9.3 on south side by 27.6 feet.

Parcel No. 25—Part of two-story frame house and store, No. 1204 Castle Hill avenue. Cut 18.5 feet on north and south sides by 25 feet.

Parcel No. 26—Part of three-story frame house and store, No. 1202 Castle Hill avenue. Cut 23.4 feet on north and south sides by 33.01 feet.

Parcel No. 27. Part of two and one-half story frame house, No. 1178 Castle Hill avenue. Cut 25.3 feet on north side by 22.8 feet on south side by 18.3 feet.

Parcel No. 28—Part of porch and steps of two and one-half story frame house, No. 1172 Castle Hill avenue. Cut 7.3 feet north and south sides by 20.2 feet.

Parcel No. 29—Part of two-story frame house, No. 1171 Castle Hill avenue. Cut 1.6 feet on north side by 2.4 feet on south side by 16.3 feet.

Parcel No. 30—Part of two and one-half story frame house, No. 1149 Castle Hill avenue. Cut 10.6 feet on north side by 10 feet on south side by 22.1 feet.

Parcel No. 31—Part of two three-story frame houses and stores, Nos. 1135 and 1137 Castle Hill avenue. Cut 13.7 feet on north side by 13.6 feet on south side by 50.1 feet.

Parcel No. 32—Part of three-story frame house and store at the northwest corner of Tenth street and Castle Hill avenue (facing on Tenth street). Cut 13.5 feet on north side by 13.7 feet on south side by 50.4 feet.

Parcel No. 33—Part of two-story frame house and store, No. 1117 Castle Hill avenue. Cut 25.4 feet on north side by 29.5 feet on south side by 31.8 feet on east side by 16.5 on west side.

Parcel No. 34—Part of two-story frame house and store, No. 1118 Castle Hill avenue. Cut 23.4 feet on north and south sides by 20.2 feet.

Parcel No. 35—Part of two and one-half story frame house, No. 1116 Castle Hill avenue. Cut 8.6 feet on north and south sides by 23.7 feet.

Parcel No. 36—Part of three-story frame house, No. 1103 Castle Hill avenue. Cut 19 feet on north side by 19.1 feet on south side by 23 feet.

Parcel No. 37—Part of three-story frame house and store, No. 1101 Castle Hill avenue. Cut 19.1 feet on north side by 19.2 feet on south side by 23 feet.

Parcel No. 38—Part of frame church and steps at southwest corner of Ninth street and Castle Hill avenue. Cut 12.3 feet on north side by 12 feet on south side by 45 feet.

Parcel No. 39—Part of two and one-half story frame house, No. 1071 Castle Hill avenue. Cut 4.3 feet on north side by 4.1 feet on south side by 21.2 feet.

Parcel No. 40—Part of three-story frame house and store, No. 1048 Castle Hill avenue. Cut 16.5 feet on north side by 20.1 feet on south side by 24.4 feet.

Parcel No. 41—Part of two-story frame house, No. 1045 Castle Hill avenue. Cut 16.4 feet on north and south sides by 21.1 feet.

Parcel No. 42—Part of two-story frame house, No. 1043 Castle Hill avenue. Cut 16.4 feet on north and south sides by 21.1 feet.

Parcel No. 43—Part of two-story frame house, No. 1041 Castle Hill avenue. Cut 16.3 feet on north and south sides by 21.1 feet.

Parcel No. 44—Part of two-story frame house, No. 1040 Castle Hill avenue. Cut 7.3 feet on north side by 7.2 feet on south side by 22.4 feet.

Parcel No. 45—Part of two and one-half story frame house, No. 1038 Castle Hill avenue. Cut 10.1 feet on north and south sides by 18.5 feet.

Parcel No. 46—Part of two and one-half story frame house, No. 1036 Castle Hill avenue. Cut 10.2 feet on north side by 10.1 feet on south side by 18.5 feet.

Parcel No. 47—Part of two and one-half story frame house and part of one-story frame store, Nos. 1032 and 1034 Castle Hill avenue. Cut 5.5 feet on north side of house by 24.4 feet on south side of store by 39.4 feet.

Parcel No. 48—Part of three-story frame house and store, No. 1017 Castle Hill avenue. Cut 19.6 feet on north side by 19.5 feet on south side by 23 feet.

Parcel No. 49—Part of three-story frame house and store, No. 1015 Castle Hill avenue. Cut 19.6 feet on north and south sides by 22.1 feet.

Parcel No. 50—Part of three-story frame house and store, No. 1013 Castle Hill avenue. Cut 19.7 feet on north and south sides by 22.1 feet.

Parcel No. 51—Part of three-story frame house and store, No. 1011 Castle Hill avenue. Cut 19.8 feet on north and south sides by 22.1 feet.

Parcel No. 52—Part of frame shed adjoining Parcel No. 51. Cut 20.1 feet on north and south sides by 16.2 feet.

Parcel No. 53—Part of two-story frame house and store, No. 1001 Castle Hill avenue. Cut 19.8 feet on north and south sides by 25.2 feet.

Parcel No. 54—Part of two-story frame house, southeast corner of Eastern boulevard (Ludlow avenue) and Castle Hill avenue, and part of one-story frame building. Cut 10 feet on north and south sides by 58.4 feet; also part of one-story summer house. Cut 25.4 feet on north side by 26.2 feet on south side by 19.5 feet.

Parcel No. 55—One and one-half story frame house, No. 960 Castle Hill avenue.

Parcel No. 56—Part of two-story frame house at southeast corner of Fifth street and Castle Hill avenue. Cut 15.2 feet on north side by 15.3 feet on south side by 28.1 feet.

Parcel No. 57—Part of three two-story frame houses, Nos. 942, 944 and 946 Castle Hill avenue. Cut 9.4 feet on north side by 9.6 feet on south side by 50.1 feet.

Parcel No. 58—Part of two-story frame house, No. 940 Castle Hill avenue. Cut 9.7 feet on north and south sides by 21 feet.

Parcel No. 59—Part of two and one-half story frame house, No. 938 Castle Hill avenue. Cut 0.6 foot on north side by 0.8 foot on south side by 20 feet.

Parcel No. 60—Part of three two-story frame houses, Nos. 932, 934 and 936 Castle Hill avenue. Cut 15.8 feet on north and south sides by 50.2 feet.

Parcel No. 61—Part of two-story frame house, No. 930 Castle Hill avenue. Cut 16 feet north and south sides by 21.1 feet.

Parcel No. 62—Part of two-story frame house, No. 909 Castle Hill avenue. Cut 5.6 feet on north and south sides by 21.3 feet.

Parcel No. 63—Part of two-story frame house, No. 905 Castle Hill avenue. Cut 5.7 feet on north and south sides by 20.3 feet.

Parcel No. 63-A—Part of two-story frame house at southeast corner of Third street and Castle Hill avenue. Cut 11.2 feet on north and south sides by 21.3 feet.

Parcel No. 64—Part of two-story frame house, No. 863 Castle Hill avenue. Cut 9 feet on north side by 8.9 feet on south side by 21 feet.

Parcel No. 65—Part of two and one-half story frame house at the southeast corner of Second street and Castle Hill avenue. Cut 4.5 feet on north and south sides by 20.3 feet.

Parcel No. 66—Part of two-story frame house, No. 849 Castle Hill avenue. Cut 16.9 feet on north and south sides by 23 feet.

Parcel No. 67—Part of two and one-half story frame house, No. 845 Castle Hill avenue. Cut 4.9 feet on north and south sides by 17.6 feet.

Parcel No. 68—Part of two-story frame house, No. 841 Castle Hill avenue. Cut 4.7 feet on north side by 4.9 feet on south side by 18.3 feet.

Parcel No. 69—Part of two-story frame house, about 2,700 feet south of Second street. Cut 25.5 feet on north side by 3.3 feet on north side of porch extension.

Parcel No. 70—Part of two-story frame house on east side of Castle Hill avenue, south of Lacombe avenue. Cut 0.8 foot on north side of west extension by 2.6 feet on south side of same.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 3d day of December, and then publicly opened for the sale for removal of the above-described buildings and appurtenances thereto, and the award will be made to the highest bidder within twenty-four hours, or as soon as possible thereafter.

Each parcel must be bid for separately and will be sold in its entirety, as described in above advertisement.

Each and every bid must be accompanied by a deposit of cash or certified check in a sum equal to 25 per cent. of the amount of the bid, except that a minimum deposit of $50 will be required with all bids, and that a deposit of $500 will be sufficient to entitle bidders to bid on any or all of the buildings.

Deposits of unsuccessful bidders will be returned within twenty-four hours after successful bidders have paid purchase price in full and given security, and those of successful bidders may be declared forfeited to The City of New York by the Comptroller upon the failure of the successful bidder to further comply with the requirements of the terms and conditions of the sale as set forth hereinafter.

Successful bidders will be required to pay the purchase money and deposit the required security within twenty-four hours of the receipt of notification of the acceptance of their bids.

The Comptroller reserves the right to reject any and all bids and to waive any defects or informalities in any bid should it be deemed in the interest of The City of New York to do so.

All bids must state clearly (1) the number or description of the building or buildings bid for, (2) the amount of the bid, (3) the full name and address of the bidder.

All bids must be inclosed in properly sealed envelopes, marked "Proposals to be opened December 3, 1909," and must be delivered, or mailed in time for their delivery, prior to 11 a. m. of that date to the "Collector of City Revenue, Room 141, No. 280 Broadway, New York City," from whom any further particulars regarding the buildings to be disposed of may be obtained.

The buildings will be sold for immediate removal only, subject to the following

TERMS AND CONDITIONS.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay cash or a certified check drawn to the order of the Comptroller of The City of New York, and must also give a certified check or cash in half the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale. Where the amount of the purchase price does not equal or exceed the sum of $50, the sum of $50 shall be the amount of the security to be deposited. This security may at any time after the expiration of the contract period be applied by the City to the cost of completing any of the work required under the contract, but unfinished at the expiration of the contract period.

The purchaser shall not lease, occupy, cause or permit the building or buildings, etc., purchased by him to be used or occupied for any purpose other than that of their speedy removal, nor shall he collect any rental or other revenue for the use of either the land or the buildings, etc., situated thereon. The breach of either or any of these conditions shall forthwith void the sale and cause immediate forfeiture of the purchase money and the security deposited for the faithful performance of the conditions of the sale. The placing therein or permitting the occupancy of any such building by any tenant free, for rent or otherwise, excepting the necessary watchmen or the workmen engaged in the actual demolition thereof, shall of itself be a breach of the above conditions of sale.

The sale will be as of the condition of the property on date of delivery thereof to the purchaser. The City of New York will not be responsible for any change or loss which may occur in the condition of the buildings or their appurtenances between the time of the sale thereof and the time of delivering possession to the purchaser, after being properly vacated of all tenants. The sale and delivery to purchaser will be made as nearly together as the circumstance of vacating the structures of their tenants will permit.

All the material of the buildings, sheds, walks, structures and cellars of whatsoever nature, with their exterior and interior fixtures, appurtenances and foundations of all kinds, except the exterior walls of the buildings and their foundations and the sidewalks and curb in front of said buildings extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed, in compliance with the directions of the Bureau of Sewers, Borough of The Bronx, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances or any part thereof within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the costs and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs of adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

H. A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 11, 1909.

n15,d3

Sale of Corporate Stock.

PROPOSALS FOR $12,500,000 OF FOUR PER CENT. CORPORATE STOCK OF THE CITY OF NEW YORK.

PRINCIPAL AND INTEREST PAYABLE IN GOLD.

EXEMPT FROM TAXATION.

EXECUTORS, ADMINISTRATORS, GUARDIANS AND OTHERS HOLDING TRUST FUNDS ARE AUTHORIZED BY SECTION 9 OF ARTICLE 1 OF CHAPTER 417 OF THE LAWS OF 1897, AS AMENDED, TO INVEST IN SAID STOCK.

SEALED PROPOSALS WILL BE RECEIVED BY THE COMPTROLLER OF THE CITY OF New York, at his office, No. 280 Broadway, Borough of Manhattan, in The City of New York, until

FRIDAY, DECEMBER 10, 1909,

at 2 o'clock p. m., when they will be publicly opened in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, as provided by law, for the whole or a part of the following described interchangeable Registered or Coupon Corporate Stock of The City of New York, bearing interest at the rate of four per cent. per annum, from and including December 10th, 1909, to wit:

$6,000,000 00 of Corporate Stock of The City of New York (for Various Municipal Purposes). Principal payable May 1st, 1959. Interest payable semi-annually on May 1st and November 1st.
This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the Municipal authorities of The City of New York, and is free and exempt from all taxation.

6,000,000 00 of Corporate Stock of The City of New York, To Provide for the Supply of Water. Principal payable May 1st, 1959. Interest payable semi-annually on May 1st and November 1st.
This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the Municipal authorities of The City of New York, and is free and exempt from all taxation.

500,000 00 of Corporate Stock of The City of New York, for the Construction of a Building in Bryant Park for the New York Public Library, Astor, Lenox and Tilden Foundations. Principal payable May 1st, 1959. Interest payable semi-annually on May 1st and November 1st.
This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the Municipal authorities of The City of New York, and is free and exempt from all taxation.

The interest on all of said Stock which may be issued in Coupon form will be paid at the option of the holder thereof, at the office of the Comptroller of The City of New York or at the office of the City's Agent in London, England, at the rate of $4.8780 to the pound sterling.

The said stock is issued in accordance with the provisions of section 10 of article 8 of the Constitution of the State of New York.

The principal of and interest on said stock are payable in gold coin of the United States of America, of the present standard of weight and fineness, pursuant to a resolution of the Commissioners of the Sinking Fund, adopted June 9th, 1898.

CONDITIONS OF SALE.

As provided for by the Greater New York Charter.

1. Proposals containing conditions other than those herein set forth will not be received or considered.

2. No proposal for stock shall be accepted for less than the par value of the same.

3. Every bidder, as a condition precedent to the reception or consideration of his proposal, shall deposit with the Comptroller in money, or by a certified check drawn to the order of said Comptroller upon a trust company or a state bank incorporated and doing business under the laws of the State of New York, or upon a National Bank, Two per cent. of the par value of the stock bid for in said proposal.

No proposal will be received or considered which is not accompanied by such deposit.

All such deposits shall be returned by the Comptroller to the persons making the same within three days after the decision has been rendered as to who is or are the highest bidder or bidders, except the deposit made by the highest bidder or bidders.

4. If said highest bidder or bidders shall refuse or neglect, within five days after service of written notice of the award to him or them, to pay to the City Chamberlain the amount of the stock awarded to him or them at its par value, together with the premium thereon, less the amount deposited by him or them, the amount or amounts of deposit thus made shall be forfeited to and retained by said City as liquidated damages for such neglect or refusal, and shall thereafter be paid into the Sinking Fund of The City of New York for the Redemption of the City Debt.

5. Upon the payment into the City Treasury by the persons whose bids are accepted, of the amounts due for the stock awarded to them respectively, including accrued interest from the date of sale, certificates thereof shall be issued to them in such denominations provided for by the Charter as they may desire.

6. It is required by the Charter of the City that in making proposals for bonds or stock, "every bidder may be required to accept a portion of the whole amount thereof bid for by him at the same rate or proportional price as may be specified in his bid; and any bid which conflicts with this condition shall be rejected, provided, however, that any bidder offering to purchase all or any part of the bonds offered for sale at a price at par or higher may also offer to purchase all or none of said bonds at a different price, and if the Comptroller deems it to be in the interests of the City so to do, he may award the bonds to the bidder offering the highest price for all or none of said bonds; provided, however, that if the Comptroller deems it to be in the interests of the City so to do, he may reject all bids." Under this provision, the condition that the bidder will accept only the whole amount of stock bid for by him, and *not* any part thereof, cannot be inserted in any bids, except those for "all or none" offered by bidders who have also bid for "all or any part" of the stock offered for sale.

7. Stock issued in Coupon form can be converted into Registered Stock, and stock issued in Registered form can be converted into Coupon Stock in denominations of $1,000.

8. The proposals, together with the security deposits, should be inclosed in a sealed envelope, indorsed "Proposals for Bonds of The City of New York," and said envelope inclosed in another sealed envelope, addressed to the Comptroller of The City of New York. (No special form of proposal is required, therefore no blanks are furnished.)

HERMAN A. METZ, Comptroller.

The City of New York, Department of Finance, Comptroller's Office, November 23, 1909.

n24,d10

DEPARTMENT OF STREET CLEANING.

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m. on

FRIDAY, DECEMBER 10, 1909, Boroughs of Manhattan, The Bronx and Brooklyn.

CONTRACT FOR FURNISHING AND DELIVERING 250 DRAFT HORSES; 125 FOR THE BOROUGH OF MANHATTAN, 25 FOR THE BOROUGH OF THE BRONX AND 100 FOR THE BOROUGH OF BROOKLYN.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1909.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each horse contained in the specifications, by which the bids will be tested. The bids will be read from the total, and the award made to the lowest bidder.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

WM. H. EDWARDS, Commissioner.

Dated November 26, 1909.

n27,d10

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF STREET CLEANING OF THE CITY OF NEW YORK, NOS. 13 TO 21 PARK ROW, NEW YORK, November 24, 1909.

PUBLIC NOTICE.

BOROUGHS OF MANHATTAN AND THE BRONX.

NOTICE IS HEREBY GIVEN THAT, PURsuant to section 541 of the Greater New York Charter, I shall sell at public auction, at Stable "A," of this Department, Seventeenth street and Avenue C, Borough of Manhattan, at 10 a. m.

WEDNESDAY, DECEMBER 8, 1909,

the following unused property of this Department, to wit:

160 horses, more or less.
1 lot of old harness, consisting of 9 sets of double truck harness, 8 sets of single truck harness, 7 sets of light driving harness and 2 sets of Hill horse harness, all more or less.
1 lot of old harness, consisting of 210 cart bridles, 270 cart saddles, 232 cart breechings, 227 cart hames, 15 lines, all more or less.
559 old horse collars, more or less.
1 lot, consisting of 1023 canvas cart covers, 613 canvas quarter blankets, 6 rubber horse covers, 94 canvas feed bags, 49 canvas dropping bags, all more or less.
6 old lap robes, more or less.
1 old horse clipping machine, more or less.
10 old bicycles, more or less.
1 lot, consisting of 24 old auto shoes, 12 old auto inner tubes, 75 old bicycle tires, all more or less.
1 vertical engine (Acme), with shaft, fly-wheel and governor.
1 vertical engine (Acme), with fly-wheel and two pulleys.
1 horizontal engine, with fly-wheel and automatic governor.
1 electric generator, 25 horse-power, with pulley.
75 empty barrels (oil, turpentine, etc.), more or less.
75,000 pounds old tire, scrap and malleable iron, including 100 (more or less) old steel cart bodies.

TERMS OF SALE.

The horses are to be paid for in full at the time of the sale and are to be removed before 3 p. m. on the day of the sale. On all the rest of the property (excepting the old iron) a deposit of 75 per cent. of the purchase price will be required on the day of the sale. A deposit of two hundred dollars ($200) will be required on the old iron at the time of the sale, said deposit to be held by the Department of Street Cleaning until all the iron is removed. The iron will be sold by the ton (of 2,000 pounds), and must be paid for as removed. All the articles sold, except the horses, are to be removed within ten (10) working days, or, in default thereof, said deposits shall be forfeited to The City of New York as liquidated damages.

WM. H. EDWARDS, Commissioner.

n26,d8

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m. on

FRIDAY, DECEMBER 3, 1909, Borough of Brooklyn.

No. 1. CONTRACT FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF A DUMPING BOARD AT THE FOOT OF CLINTON AVENUE.

The time for the completion of the work and the full performance of the contract is forty (40) days.

The amount of security required is Three Thousand Dollars ($3,000). Bids will be compared and the contract awarded at a lump or aggregate sum.

Borough of Manhattan.

No. 2. CONTRACT FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF A DUMPING BOARD AT THE FOOT OF ONE HUNDRED AND FIFTY-EIGHTH STREET, NORTH RIVER.

The time for the completion of the work and the full performance of the contract is forty (40) days.

The amount of security required is Fifteen Hundred Dollars ($1,500). Bids will be compared and the contract awarded at a lump or aggregate sum.

Bidders for either of the above contracts must state a lump or aggregate sum for the entire work under each contract, and the awards, if made, will be made to the lowest bidder on each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

WM. H. EDWARDS, Commissioner.
Dated November 11, 1909.
n13,d3

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD MEETINGS.

Board of Estimate and Apportionment.

The Board of Estimate and Apportionment meets in the Old Council Chamber (Room 16), City Hall, every Friday, at 10.30 o'clock a. m.

JOSEPH HAAG,
Secretary.

Commissioners of Sinking Fund.

The Commissioners of the Sinking Fund meet in the Old Council Chamber (Room 16), City Hall, at call of the Mayor.

N. TAYLOR PHILLIPS,
Deputy Comptroller, Secretary.

Board of Revision of Assessments.

The Board of Revision of Assessments meets in the Old Council Chamber (Room 16), City Hall, every Thursday at 11 a. m., upon notice of the Chief Clerk.

HENRY J. STORRS,
Chief Clerk.

Board of City Record.

The Board of City Record meets in the Old Council Chamber (Room 16), City Hall, at call of the Mayor.

PATRICK J. TRACY,
Supervisor, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, November 22, 1909.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from

TUESDAY, NOVEMBER 23, 1909, UNTIL 4 P. M. ON WEDNESDAY, DECEMBER 8, 1909,

for the position of

PHOTOGRAPHER (X-RAY), HOSPITAL SERVICE.

The examination will be held on FRIDAY, JANUARY 14, 1910, at 10 a. m.

NO APPLICATIONS RECEIVED AT THIS OFFICE, BY MAIL OR OTHERWISE, AFTER 4 P. M. ON WEDNESDAY, DECEMBER 8, 1909, WILL BE ACCEPTED.

The subjects and weights of the examination are as follows:

Technical	6
Experience	4

Seventy-five per cent. required on the technical, and 70 per cent. on the general average.

Candidates must be licensed practitioners in medicine, be able to take X-ray photographs, to make diagnoses by the use of the X-ray and also to give treatment for various diseases by use of the X ray.

Salary, $1,800 per annum.
The minimum age is 21 years.
There are two vacancies.

FRANK A. SPENCER, Secretary.
n23,d8

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, November 20,. 1909.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from

MONDAY, NOVEMBER 22, 1909, UNTIL 4 P. M. ON TUESDAY, DECEMBER 7, 1909,

for the position of

INSPECTOR, BOARD OF WATER SUPPLY.

The examination will be held on WEDNESDAY, JANUARY 12, 1910, at 10 a. m.

NO APPLICATION RECEIVED AT THIS OFFICE, BY MAIL OR OTHERWISE, AFTER 4 P. M. ON TUESDAY, DECEMBER 7, 1909, WILL BE ACCEPTED.

The subjects and weights of the examination are as follows:

Technical	4
Experience	3
Mathematics	1
Report	2

The percentage required is 75 on the technical paper and 70 on all.

Candidates should be active, energetic men in sound health. They will be required to pass a physical examination. Graduates of technical schools of recognized standing are desired. Assignments will be made from this list to any part of the State, and appointees are expected to live near their work. In some sections of the work living conditions for families are not satisfactory. The examination will be largely on general engineering lines, but the knowledge of candidates in question respecting the construction of works for the storage and distribution of water will also be tested.

The salary is $4.50 to $5 per day.
The minimum age is 22 years.

FRANK A. SPENCER, Secretary.
n22,d7

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, November 17, 1909.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from

THURSDAY, NOVEMBER 18, 1909, UNTIL 4 P. M. ON THURSDAY, DECEMBER 2, 1909,

for the position of

INSPECTOR OF TAXICABS.

THE EXAMINATION WILL BE HELD ON THURSDAY, DECEMBER 30, 1909.

NO APPLICATION RECEIVED AT THIS OFFICE, BY MAIL OR OTHERWISE, AFTER 4 P. M. ON THURSDAY, DECEMBER 2, 1909, WILL BE ACCEPTED.

The subjects and weights of the examination are as follows:

Technical	6
Experience	4

Seventy-five per cent. is required on the technical and 70 per cent. on all.

Candidates must have had experience in making taximeters or in making clockwork or similar mechanism, or as inspectors of taximeters for owning or operating companies. They should have had knowledge of taximeters, of gearing and wheelwork and calculation of the same.

Certification to the position of Chief Inspector as well as to that of Inspector will be made from the eligible list.

The salary of the position of Inspector is $1,200 per annum; that of Chief Inspector, $1,800 per annum.

The minimum age is twenty-one years.

FRANK A. SPENCER, Secretary.
n18,d3

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, August 17, 1909.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from

MONDAY, AUGUST 23, UNTIL FRIDAY, DECEMBER 31, 1909,

for the position of

PATROLMAN, POLICE DEPARTMENT.

(NO APPLICATIONS RECEIVED BY THE COMMISSION, BY MAIL OR OTHERWISE, AFTER 4 P. M. ON DECEMBER 31 WILL BE ACCEPTED.)

The subjects and weights are as follows:

Physical development and strength	50
Mental test	50

The subjects and weights of the mental test are as follows:

Memory test	2
Government	5
Localities	1
Arithmetic	2

Seventy per cent. will be required on the mental examination.

Seventy per cent. will be required on strength.

Seventy per cent. will be required on physical development.

The minimum height for applicants is 5 feet 8 inches; the minimum weight, 140 pounds; the minimum chest measurement, 33½ inches.

Applications will not be received from persons who are less than twenty-three (23) nor more than thirty (30) years of age.

Applicants will be required to submit with their applications a transcript of the Records of the Bureau of Vital Statistics showing the date of birth, or in lieu thereof, a transcript from the record of the church in which they were baptized, signed by the pastor, under seal.

All foreign-born applicants will be required to submit evidence of citizenship; naturalization papers should be attached to the application.

Applicants will be notified later of the dates of the physical and mental examinations.

Application blanks may be had at No. 299 Broadway, Room 1119.

F. A. SPENCER, Secretary.
a19,d31

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, CITY OF NEW YORK.

PUBLIC NOTICE WILL BE GIVEN OF all competitive examinations two weeks in advance of the date upon which the receipt of applications for any scheduled examination will close. Applications will be received for only such examinations as are scheduled. No application will be accepted at the office of the Commission, by *mail or otherwise*, after the closing hour for the receipt of same, set forth in the advertisement.

When an examination is advertised, a person desiring to compete in the same may obtain an application blank upon request made in writing or by personal application at the office of the Commission, Room 1119.

The Commission cannot guarantee that applications mailed in response to written requests will be received in time to permit of their being prepared and filed prior to closing hour.

All notices of examinations will be posted in the office of the Commission, and advertised in the CITY RECORD for two weeks in advance of the date upon which the receipt of applications will close for any stated position.

Public notice will also be given by advertisement in most of the City papers.

Wherever an examination is of a technical character, due notice is given by advertisement in the technical journals appertaining to the particular profession for which the examination is called.

Such notices will be sent to the daily papers as matters of news. The scope of the examination will be stated.

No information will be given by telephone, and the Commission will not be responsible for such if given by employees, either as to date of filing applications or upon other subjects.

Specimen questions of previous examinations may be obtained at Room 1108.

Unless otherwise specifically stated, the minimum age requirement for all positions is 21.

FRANK L. POLK, President;
R. ROSS APPLETON,
ARTHUR J. O'KEEFFE,
Commissioners.

DEPARTMENT OF EDUCATION.

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 3 o'clock p. m. on

MONDAY, DECEMBER 13, 1909.
Borough of Brooklyn.

No. 1. FOR DRIVING WELL AT PUBLIC SCHOOL 120, BARREN ISLAND, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be ninety (90) working days, as provided in the contract.

The amount of security required is Two Thousand Dollars ($2,000).

On No. 1 the bids will be compared and the contract awarded in a lump sum to the lowest bidder.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, ninth floor, Hall of the Board of Education, Park avenue and Fifty-ninth street, Borough of Manhattan, and also at Branch Office, No. 131 Livingston street, Borough of Brooklyn.

C. B. J. SNYDER,
Superintendent of School Buildings.
Dated December 1, 1909.
n30,d13

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 3 o'clock p. m. on

MONDAY, DECEMBER 13, 1909.
Borough of The Bronx.

No. 2. FOR NEW IRON RAILINGS AND GATES, ALSO FOR RELAYING PAVEMENT, ETC., AT PUBLIC SCHOOL 35, ONE HUNDRED AND SIXTY-THIRD STREET, GRANT AND MORRIS AVENUES, BOROUGH OF THE BRONX.

The time allowed to complete the whole work will be forty (40) working days, as provided in the contract.

The amount of security required is Four Hundred Dollars ($400).

Borough of Manhattan.

No. 3. FOR INSTALLING GAS FIXTURES, TOGETHER WITH BURNERS, MANTLES, CHIMNEYS, GLOBES, SHADES, REFLECTORS AND BY-PASSES, COMPLETE, UPON A "PURCHASE AND MAINTENANCE" BASIS OR A "RENTAL" BASIS, IN THE HALLS, CORRIDORS, CLASSROOMS AND EXIT STAIRS MENTIONED IN THE SPECIFICATIONS, AT PUBLIC SCHOOLS 8, 16, 17, 43, 49, 70, 71, 77, 79 AND 83, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work on each school will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows:

Public School 8	$100 00
Public School 16	100 00
Public School 17	100 00
Public School 43	300 00
Public School 49	400 00
Public School 70	100 00
Public School 71	100 00
Public School 77	100 00
Public School 79	100 00
Public School 83	100 00

By the "rental" system of maintenance is meant a system by which mantle lamps, as described, shall be furnished, installed and operated in the public school buildings by the company having the contract for the same, the said company charging a stated sum per month as rental for each lamp.

By the "purchase and maintenance" system is meant that the lamps complete are to be purchased by the Department of Education, and after the payment for the furnishing and original installation of said lamps they are to be maintained by the company furnishing the said lamps at a specified sum per lamp per month.

A separate proposal upon either system or upon each of both systems must be submitted for each school and award will be made thereon.

Borough of Queens.

No. 4. FOR ALTERATIONS, REPAIRS, ETC., TO PUBLIC SCHOOL 79, SEVENTH AVENUE AND FOURTEENTH STREET, WHITESTONE, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be sixty working days, as provided in the contract.

The amount of security required is One Thousand Dollars ($1,000).

Various Boroughs.

No. 5. FOR FILING CABINETS FOR VARIOUS SCHOOLS IN THE BOROUGHS OF MANHATTAN, THE BRONX AND RICHMOND.

The time allowed to complete the whole work will be sixty (60) working days, as provided in the contract.

The amount of security required is as follows:

Item 1	$800 00
Item 2	200 00
Item 3	200 00

A separate proposal must be submitted for each item and award will be made thereon.

On Nos. 2 and 4 the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder on each contract.

On Nos. 3 and 5 the bidders must state the price of each item, by which the bids will be tested.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, ninth floor, Hall of the Board of Education, Park avenue and Fifty-ninth street, Borough of Manhattan, and also at Branch Office, No. 69 Broadway, Flushing, Borough of Queens, for work for the respective Boroughs.

C. B. J. SNYDER,
Superintendent of School Buildings.
Dated December 2, 1909.
n30,d13

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 3 o'clock p. m. on

MONDAY, DECEMBER 6, 1909,
Borough of Manhattan.

No. 1. FOR THE GENERAL CONSTRUCTION, ETC., OF ADDITIONS TO AND ALTERATIONS IN PUBLIC SCHOOL 78, ON THE NORTHEAST CORNER OF PLEASANT AVENUE AND EAST ONE HUNDRED AND NINETEENTH STREET, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be two hundred (200) working days, as provided in the contract.

The amount of security required is Seventy-five Thousand Dollars ($75,000).

No. 2. FOR FURNITURE FOR PUBLIC SCHOOL 90, ON ONE HUNDRED AND FORTY-SEVENTH AND ONE HUNDRED AND FORTY-EIGHTH STREETS, ABOUT 350 FEET WEST OF SEVENTH AVENUE, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be thirty (30) working days, as provided in the contract.

The amount of security required is One Thousand Dollars ($1,000).

Borough of Queens.

No. 3. FOR IMPROVING THE PREMISES AT PUBLIC SCHOOL 39, ROANOKE AVENUE AND STATE STREET, FAR ROCKAWAY, BOROUGH OF QUEENS.

The time allowed to complete the whole work will be forty (40) working days, as provided in the contract.

The amount of security required is Six Hundred Dollars ($600).

No. 4. FOR THE GENERAL CONSTRUCTION, ETC., OF NEW PUBLIC SCHOOL 92, ON THE NORTHERLY SIDE OF PARK AVENUE, BETWEEN GRINNELL AND RANDALL STREETS, CORONA, BOROUGH OF QUEENS.

The time allowed to complete the whole will be two hundred and seventy-five (275) working days, as provided in the contract.

The amount of security required is Sixty Thousand Dollars ($60,000).

On Nos. 1, 2, 3 and 4 the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder on each contract.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent at Estimating Room, ninth floor, Hall of the Board of Education, Park avenue and Fifty-ninth street, Borough of Manhattan, and also at branch office, No. 69 Broadway, Flushing, Borough of Queens, for work for their respective Boroughs.

Dated November 23, 1909.

C. B. J. SNYDER,
Superintendent of School Buildings.
n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings, at the above office of the Department of Education, until 3 o'clock p. m. on

MONDAY, DECEMBER 6, 1909.
Borough of Brooklyn.

No. 5. FOR FIREPROOF STAIRWAYS, ETC., AT PUBLIC SCHOOL 20, UNION AVENUE AND KEAP STREET; PUBLIC SCHOOL 29, COLUMBIA AND AMITY STREETS, AND PUBLIC SCHOOL 49, MAUJER STREET, NEAR GRAHAM AVENUE ("A" FOR IRON CONSTRUCTION, AND "B" FOR ALTERNATE REINFORCED CONCRETE CONSTRUCTION), BOROUGH OF BROOKLYN.

Note—In estimating on Public School 49, contractors must submit separate estimates on "A," the iron construction; "B," the reinforced concrete construction.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows:

Public School 20	$1,800 00
Public School 29	1,600 00
Public School 49	2,600 00

A separate proposal must be submitted for each school and award will be made thereon.

On No. 5 the bidders must state the price of each item, by which the bids will be tested.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, ninth floor, Hall of the Board of Education, Park avenue and Fifty-ninth street, Borough of Manhattan; also at Branch Office, No. 131 Livingston street, Borough of Brooklyn.

C. B. J. SNYDER,
Superintendent of School Buildings.
Dated November 23, 1909.
n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, COMMISSIONER'S OFFICE, NOS. 13 TO 21 PARK ROW, CITY OF NEW YORK.

NOTICE OF SALE AT AUCTION.

ON **TUESDAY, DECEMBER 14, 1909,** at 10.30 a. m., the Department of Water Supply, Gas and Electricity will sell at public auction to the highest bidder, by Samuel Vorzimer, auctioneer, at the East New York Repair Yard, No. 137 Jamaica avenue, Borough of Brooklyn, New York, the following:

100 tons of old iron, more or less.
1,500 pounds of old brass, more or less.
400 pounds of old rubber boots, more or less.

TERMS OF SALE.

The upset prices at which the above will be sold are as follows:

$9 00 per ton for old iron.
08 per pound for old brass.
.... for old rubber boots, etc.

No bid below these prices will be considered or accepted.

The sale of the material will be based on delivery on the ground, but the purchaser or purchasers must agree to have the material weighed at the nearest public scale to the point where the material is sold.

Successful bidders must make cash payment in bankable funds at the time and place of sale.

Bids will be received for one or more of the separate descriptions of the above, but no bid will be considered or accepted for less than the entire quantity in each case.

The purchaser or purchasers must remove all the materials within ten days after the sale; otherwise he or they will forfeit the money paid at the time of sale and the ownership to the material, which will thereafter be resold for the benefit of the City. The purchaser or purchasers must remove the material under the supervision of an employee of the Department, and will not be allowed to select material for removal at will.

JOHN H. O'BRIEN, Commissioner.
d2,14

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909,
Boroughs of Manhattan and The Bronx.

No. 3. FOR FURNISHING, REPAIRING, PLACING AND EMPTYING VAULT PANS, ETC., AT MOUNT KISCO, WESTCHESTER COUNTY, N. Y.

The time allowed to prosecute the whole work will be until December 31, 1910.

The amount of security will be Five Hundred Dollars ($500).

No. 4. FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED AND CONSTRUCTING AND INSTALLING TWO DIRECT CONNECTED, ELECTRICALLY DRIVEN VERTICAL PUMPING UNITS, COMPLETE, WITH ALL APPURTENANCES, INCLUDING ELECTRIC LIGHTING INSTALLATION, IN THE PUMPING STATION TO BE ERECTED FOR THE SEWAGE DISPOSAL PLANT AT THE VILLAGE OF MOUNT KISCO, WESTCHESTER COUNTY, N. Y.

The time allowed for doing and completing the work will be two hundred (200) calendar days.

The security required will be Three Thousand Dollars ($3,000).

Bidders are particularly cautioned that a provision in the contract No. 4 requires the maintenance of the plant, furnished and installed under this contract, in good condition for the period of one hundred and twenty-five (125) calendar days from the final completion and acceptance of the work.

The bidder will state the price, per unit, of each item of work or supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and each contract awarded for all the work, articles, materials and supplies contained in the specifications or schedules attached thereto.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, and any further information may be obtained upon application therefor to the Chief Engineer, Room 922, Nos. 13 to 21 Park row, Borough of Manhattan.

JOHN H. O'BRIEN, Commissioner of Water Supply, Gas and Electricity.

The City of New York, December 1, 1909.

d2,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909,

Borough of Richmond.

No. 5. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS AND APPURTENANCES IN CENTER, COURT, MOORE AND TYSEN STREETS; CLARK, GARRETSON, HUGUENOT, ROSSVILLE, SEA VIEW AND STAPLETON AVENUES; TERRACE COURT; FRESH KILLS AND WOODROW ROADS.

The time allowed for doing and completing the work will be one hundred and twenty (120) working days.

The security required will be Forty-six Thousand Dollars ($46,000).

No. 6. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS AND APPURTENANCES AND REMOVING EXISTING WATER MAINS AND APPURTENANCES IN WESTERVELT, BEECHWOOD, BISMARK, MADISON, MONROE, TOMPKINS, HAMILTON, SECOND, THIRD, FOURTH, FIFTH, SIXTH, SEVENTH, CRESCENT, AND ST. PAULS AVENUES; JERSEY, HENRY, BELMONT, CHURCH, NICHOLAS, VINE, FIFTH AND WALL STREETS; CARROLL, ST. MARKS, EGMONT, HOLLAND (CURTIS) AND FORT PLACES; RICHMOND ROAD, DANIEL LOW TERRACE, DANIEL LOW CIRCLE AND RICHMOND TURNPIKE.

The time allowed for doing and completing the work will be one hundred and thirty (130) working days.

The security required will be Seventy Thousand Dollars ($70,000).

The bidder will state the price, per unit, of each item of work or supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and each contract awarded for all the work, articles, materials and supplies contained in the specifications or schedule attached thereto.

Bidders are requested to make their bids or estimates upon the blank forms prepared by the Department, a copy of which, with the proper envelope in which to inclose the bid or estimate, together with a copy of the plans and contract, including the specifications, in the form approved by the Corporation Counsel, may be obtained upon application therefor at the office of the Department, Room 922, No. 21 Park row, New York City, or at the office of the Department for the Borough of Richmond, Borough Hall, Borough of Richmond, where the original plans, which are made a part of the specifications, may also be seen, and any further information desired may be obtained from the Engineer in charge of the Borough.

JOHN H. O'BRIEN, Commissioner.

The City of New York, December 1, 1909.

d2,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909,

Borough of Brooklyn.

No. 1. FOR FURNISHING, DELIVERING, STORING AND TRIMMING 50,000 GROSS TONS OF SEMI-BITUMINOUS COAL.

The time for the delivery of the articles, materials and supplies and the performance of the contract will be three hundred and sixty-five (365) calendar days.

The amount of security will be Twenty Thousand Dollars ($20,000).

The bidder will state the price, per unit, of each item of supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and the contract awarded for all the work, articles, materials and supplies contained in the specifications or schedule attached thereto.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Commissioner, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract and specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Commissioner, or at the office of the Department for the Borough of Brooklyn, Room 25, Municipal Building, Borough of Brooklyn.

JOHN H. O'BRIEN, Commissioner of Water Supply, Gas and Electricity.

The City of New York, December 1, 1909.

d2,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909,

Borough of Brooklyn.

No. 2. FOR FURNISHING, DELIVERING, STORING AND TRIMMING 6,296 GROSS TONS OF BROKEN SIZE ANTHRACITE COAL, 24,420 GROSS TONS OF PEA SIZE ANTHRACITE COAL, 60,330 GROSS TONS OF No. 1 BUCKWHEAT SIZE ANTHRACITE COAL.

The time for the delivery of the articles, materials and supplies, and the performance of the contract is three hundred and sixty-five (365) calendar days.

The amount of security required will be Fifty Thousand Dollars ($50,000).

The bidder will state the price, per unit, of each item of supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and the contract awarded for all the work, articles, materials and supplies contained in the specifications or schedule attached thereto.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Commissioner, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract and specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Commissioner, or at the office of the Department for the Borough of Brooklyn, Room 25, Municipal Building, Borough of Brooklyn.

JOHN H. O'BRIEN, Commissioner of Water Supply, Gas and Electricity.

The City of New York, December 1, 1909.

d2,14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

WEDNESDAY, DECEMBER 8, 1909.

Borough of Queens.

No. 1. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN GREENPOINT AND THOMSON AVENUES, HOFFMAN BOULEVARD AND UNION TURNPIKE, FIRST AND SECOND WARDS, BOROUGH OF QUEENS.

The time allowed for doing and completing the work will be three hundred (300) working days.

The security required will be Forty Thousand Dollars ($40,000).

No. 2. FOR FURNISHING AND DRIVING OR SINKING WELLS, AT WHITESTONE, IN THE THIRD WARD, BOROUGH OF QUEENS.

The time allowed for doing and completing the work will be ninety (90) working days.

The security required will be One Thousand Five Hundred Dollars ($1,500).

Bidders are requested to make their bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, and any further information may be obtained upon application therefor at the office of the Department, Bureau of the Engineer in Charge, Borough of Queens, Long Island City, where the plans and drawings, if any, which are made a part of the specifications, may also be seen, and any further information obtained from the Engineer in Charge.

JOHN H. O'BRIEN, Commissioner.

The City of New York, November 20, 1909.

n22,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

WEDNESDAY, DECEMBER 8, 1909,

Boroughs of Manhattan and The Bronx.

No. 3. FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN COLLEGE, GRAND, MORRIS, SHERMAN, STEUBEN, TELLER AND VALENTINE AVENUES; IN BUSH, SIMPSON, ONE HUNDRED AND SIXTY-SECOND, ONE HUNDRED AND SIXTY-SEVENTH, ONE HUNDRED AND SIXTY-EIGHTH, ONE HUNDRED AND SEVENTIETH, ONE HUNDRED AND EIGHTY-FIRST, ONE HUNDRED AND EIGHTY-THIRD, ONE HUNDRED AND EIGHTY-FOURTH, ONE HUNDRED AND NINETY-SECOND AND ONE HUNDRED AND NINETY-THIRD STREETS, AND IN FIELD PLACE.

The time allowed for doing and completing the work will be one hundred and fifty (150) working days.

The security required will be Fifteen Thousand Dollars ($15,000).

No. 4. FOR HAULING AND LAYING WATER MAINS IN BALCOLM, BENSON, BLACKROCK, BRONXWOOD, CORNELL, EDWARDS, MAITLAND, PUGSLEY, ROWLAND, STARLING, VIRGINIA AND WATSON AVENUES; IN FERRIS, THOMAS, TRATMAN, FIFTH, ONE HUNDRED AND SEVENTY-SECOND, ONE HUNDRED AND SEVENTY-FIFTH, TWO HUNDRED AND EIGHTH AND TWO HUNDRED AND TWENTY-SIXTH STREETS, AND IN ROBERTSON PLACE.

The time allowed for doing and completing the work will be ninety (90) working days.

The security required will be Three Thousand Dollars ($3,000).

No. 5. FOR HAULING AND LAYING SUCTION AND DISCHARGE MAINS FOR THE NINETY-EIGHTH STREET PUMPING STATION.

The time allowed for doing and completing the work will be one hundred (100) working days.

The security required will be Five Thousand Dollars ($5,000).

Bidders are particularly cautioned that a provision in the contract requires the maintenance of the pipes, joints, valves, etc., in good condition for the period of one year from the final completion and acceptance of the work.

The bidder will state the price, per unit, of each item of work or supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and each contract awarded for all the work, articles, materials and supplies contained in the specifications or schedules attached thereto.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including specifications, in the form approved by the Corporation Counsel, may be obtained upon application therefor at the office of the Department, Bureau of the Chief Engineer, Room 922, No. 21 Park row, New York City, where plans and drawings, which are made a part of the specifications, may also be seen, and any further information obtained from the Chief Engineer.

JOHN H. O'BRIEN, Commissioner.

New York City, November 20, 1909.

n22,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

FRIDAY, DECEMBER 3, 1909,

Borough of Brooklyn.

FOR FURNISHING, DELIVERING AND LAYING A TRUNK DISTRIBUTION MAIN AND APPURTENANCES IN GLENMORE, PENNSYLVANIA AND BUSHWICK AVENUES, AND IN MADISON STREET, BOROUGH OF BROOKLYN.

The time allowed for doing and completing the entire work under this contract will be two hundred and fifty (250) working days.

A bond of Two Hundred Thousand Dollars ($200,000) will be required from the sureties or surety upon the execution of the contract.

The bidder may make a proposal on one or both forms of construction specified. Bid No. 1 covers cast-iron pipes and specials throughout; Bid No. 2 requires that the 48-inch main shall be made of steel plates and the remainder of the pipes and specials, from 36 inches to 6 inches in diameter, and 48-inch bends, be of cast iron, as in Bid No. 1.

The bidder will state a price, both in writing and figures, per unit of measurement, for each and every item on which payment is to be made in Bid No. 1, or in the alternative Bid No. 2, and the bids will be tested by the aggregate total bid for each form of construction. The bids will be compared and the contract awarded for all the work, articles, materials and supplies required under Bid No. 1 or under alternative Bid No. 2 and contained in the specifications or schedules attached thereto and shown in the contract drawings.

All bids must be made upon the blank form of proposal, which will be furnished with the contract and contract drawings upon application. This form, when properly filled out, and signed and sworn to in accordance with the directions given in the form, shall be inclosed in the printed envelope prepared for this purpose by the Department. This envelope, bearing the title of the contract, shall be sealed and indorsed with the name of the person or persons submitting the proposal and with the date of presentation to the head of said Department at the said office.

The form of contract and the contract drawings may be obtained at the office of the Chief Engineer for the Borough of Brooklyn, Room 25, Municipal Building, on depositing there for each set of contract, specifications and drawings, the sum of five dollars ($5). Bidders desiring any explanation of the specifications or drawings must apply therefor to said Chief Engineer.

JOHN H. O'BRIEN, Commissioner of Water Supply, Gas and Electricity.

Dated New York, November 19, 1909.

n20,d3

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

FRIDAY, DECEMBER 3, 1909,

Borough of Brooklyn.

FOR FURNISHING, DELIVERING AND LAYING A TRUNK DISTRIBUTING MAIN AND APPURTENANCES IN ALBANY, CLARKSON, WOODRUFF, OCEAN, CATON, CONEY ISLAND, CHURCH AND FOURTEENTH AVENUES, AND IN FIFTIETH STREET, BOROUGH OF BROOKLYN.

The time allowed for doing and completing the entire work under this contract will be two hundred (200) working days.

A bond of One Hundred and Fifty Thousand Dollars ($150,000) will be required from the sureties or surety upon the execution of the contract.

The bidder may make a proposal on one or both forms of construction specified Bid No. 1 covers cast-iron pipes and specials throughout; Bid No. 2 requires that the 48-inch main shall be made of steel plates and the remainder of the pipes and specials, from 36 inches to 6 inches in diameter, and 48-inch bends, be of cast iron, as in Bid No. 1.

The bidder will state a price, both in writing and figures, per unit of measurement for each and every item on which payment is to be made in Bid No. 1, or in the alternative Bid No. 2, and the bids will be tested by the aggregate total bid for each form of construction. The bids will be compared and the contract awarded for all the work, articles, materials and supplies required under Bid No. 1, or under alternative Bid No. 2, and contained in the specifications or schedules attached thereto and shown in the contract drawings.

All bids must be made upon the blank form of proposal which will be furnished with the contract and contract drawings upon application. This form when properly filled out and signed and sworn to in accordance with the directions given in the form, shall be inclosed in the printed envelope prepared for this purpose by the Department. This envelope, bearing the title of the contract, shall be sealed and indorsed with the name of the person or persons submitting the proposal and with the date of presentation to the head of said Department at the said office.

The form of contract and the contract drawings may be obtained at the office of the Chief Engineer for the Borough of Brooklyn, Room 25, Municipal Building, on depositing there for each set of contract, specifications and drawings the sum of five dollars ($5). Bidders desiring any explanation of the specifications or drawings must apply therefor to said Chief Engineer.

JOHN H. O'BRIEN, Commissioner of Water Supply, Gas and Electricity.

Dated New York, November 19, 1909.

n20,d3

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES.

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock p. m. on

MONDAY, DECEMBER 13, 1909.

FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR THE DRESSERS, CUPBOARDS, SHELVING AND CERTAIN OTHER CARPENTER WORK; THE LIGHTING FIXTURES AND ALL OTHER WORK IN CONNECTION THEREWITH, AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE ENTIRE COMPLETION OF A HOSPITAL PAVILION IN CONNECTION WITH THE NEW YORK CITY HOME FOR THE AGED AND INFIRM, BLACKWELLS ISLAND, THE CITY OF NEW YORK.

The time allowed for doing and completing the entire work and the full performance of the contract is sixty (60) consecutive calendar days.

The surety required will be Two Thousand Dollars ($2,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire and for a complete job.

Blank forms and further information may be obtained at the office of Raymond F. Almirall, architect, No. 51 Chambers street, Borough of Manhattan. The City of New York, where plans and specifications may be seen.

ROBERT W. HEBBERD, Commissioner.

Dated November 30, 1909.

n30,d13

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

BOROUGHS OF BROOKLYN AND QUEENS.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock p. m. on

FRIDAY, DECEMBER 3, 1909.

FOR FURNISHING AND DELIVERING CHICKEN, FOWL, PORK, OYSTERS, COFFEE AND WATER.

The time for the performance of the contract is during the year 1909.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate.

The bidder will state the price per pound, per barrel or other unit, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the Department, foot of East Twenty-sixth street, Borough of Manhattan.

ROBERT W. HEBBERD, Commissioner.

The City of New York, November 20, 1909.

n20,d3

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICIAL PAPERS.

Morning—"The Sun," "The New York Times."

Evening—"The Globe," "The Evening Mail."

Weekly—"Democracy," "Tammany Times."

German—"Staats-Zeitung."

Designated by the Board of City Record, January 22, 1906. Amended March 1, 1906; November 20, 1906; February 20, 1907, and March 5, 1908.

BOROUGH OF BROOKLYN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m. on

WEDNESDAY, DECEMBER 15, 1909,

Borough of Brooklyn.

No. 1. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON EAST THIRD STREET, FROM AVENUE D TO AVENUE E (DITMAS AVENUE), TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

1,660 linear feet of new curbstone, set in concrete.

440 cubic yards of earth excavation.

680 cubic yards of earth filling, to be furnished.

90 cubic yards of concrete (not to be bid for).

8,330 square feet of cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is forty (40) working days.

The amount of security required is Eleven Hundred Dollars ($1,100).

No. 2. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF FULTON STREET, FROM FULTON FERRY TO SANDS STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

5,750 square yards of granite pavement, with tar and gravel joints, laid outside of the railroad area (one-year maintenance).
1,030 square yards of granite pavement, with tar and gravel joints, laid within the railroad area (no maintenance).
50 square yards of old stone pavement, to be relaid.
980 cubic yards of concrete, for pavement foundation, laid outside the railroad area.
175 cubic yards of concrete, for pavement foundation, laid within the railroad area.
2,450 linear feet of new curbstone, set in concrete.
40 linear feet of old curbstone, reset in concrete.
1,275 square feet of new granite bridgestones, laid outside the railroad area.
150 square feet of new granite bridgestones, laid within the railroad area.
200 square feet of old bridgestones, relaid.

The time allowed for the completion of the work and the full performance of the contract is sixty (60) working days.

The amount of security required is Nine Thousand Dollars ($9,000).

No. 3. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF SCHOLES STREET, FROM WATERBURY STREET TO MORGAN AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

3,660 square yards of granite pavement, with tar and gravel joints (one-year maintenance).
20 square yards of old stone pavement, to be relaid.
620 cubic yards of concrete, for pavement foundation.
1,350 linear feet of new curbstone, set in concrete.
700 linear feet of old curbstone, reset in concrete.
520 square feet of new granite bridgestones.
90 square feet of old bridgestones, relaid.

The time allowed for the completion of the work and the full performance of the contract is forty (40) working days.

The amount of security required is Five Thousand Dollars ($5,000).

No. 4. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF SMITH STREET, FROM ATLANTIC AVENUE TO SACKETT STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

4,120 square yards of asphalt pavement outside of railroad area (five years' maintenance).
1,160 square yards of asphalt pavement within railroad area (no maintenance).
20 square yards of old stone pavement to be relaid.
575 cubic yards of concrete for pavement foundation outside of railroad area.
160 cubic yards of concrete for pavement foundation within railroad area.
3,990 linear feet of new curbstone set in concrete.
440 linear feet of old curbstone reset in concrete.
3 noiseless covers and heads complete, for sewer manholes, furnished and set.

The time allowed for the completion of the work and the full performance of the contract is thirty-five (35) working days.

The amount of security required is Forty-five Hundred Dollars ($4,500).

No. 5. FOR CONSTRUCTING CEMENT SIDEWALKS ON BOTH SIDES OF EIGHTEENTH AVENUE, BETWEEN SEVENTY-FIRST STREET AND SEVENTY-EIGHTH STREET, WHERE NOT ALREADY DONE.

The Engineer's estimate of the quantities is as follows:

16,170 square feet cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is Eight Hundred Dollars ($800).

No. 6. FOR GRADING LOT ON THE NORTHEAST CORNER OF FIFTH AVENUE AND SIXTY-FIRST STREET, KNOWN AS LOT No. 1, BLOCK 5783.

The Engineer's estimate of the quantities is as follows:

468 cubic yards earth excavation.
139 cubic yards filling (not to be bid for).

The time allowed for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is One Hundred Dollars ($100).

No. 7. FOR GRADING A PORTION OF LOT ON THE SOUTH SIDE OF FIFTY-FIRST STREET, BETWEEN NINTH AVENUE AND TENTH AVENUE, KNOWN AS LOT No. 6, BLOCK 5652.

The Engineer's estimate of the quantities is as follows:

323 cubic yards earth excavation.
4 cubic yards filling (not to be bid for).

The time allowed for the completion of the work and the full performance of the contract is fifteen (15) working days.

The amount of security required is One Hundred Dollars ($100).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, cubic yard or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, No. 14 Municipal Building.

BIRD S. COLER, President.

Dated November 30, 1909.

d2,15

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE COMMISSIONER OF PUBLIC WORKS, CITY OF NEW YORK, BOROUGH OF BROOKLYN, BOROUGH HALL, November 30, 1909.

NOTICE OF PUBLIC SALE BY AUCTION.

THE COMMISSIONER OF PUBLIC WORKS will sell at public auction on

TUESDAY, DECEMBER 7, 1909,

at 11 o'clock a. m., the following:

Material Stored at Corporation Yard, North Portland Avenue—
About 22 tons old scrap iron.
About 2,000 pounds old rubber.
1 old wagon.
Material Stored at Coney Island Plant, Foot of West Twelfth Street—
25 oil barrels.
400 pounds old rubber hose.
400 pounds old iron.
Material Stored at Twenty-sixth Ward Disposal Plant, Foot of Hendrix Street—
About 9,500 pounds old iron.
375 pounds old brass.
44 oil barrels.
At James Powers' Stable, No. 69 Warren Street, Brooklyn—
1 old buggy (Letter "D").

Sale will take place at Room 2, Borough Hall, Borough of Brooklyn.

Intending bidders may apply for particulars at the office of the Assistant Commissioner of Public Works, Room 11a, Borough Hall, Borough of Brooklyn.

TERMS OF SALE.

Cash payment in bankable funds at the time and place of sale, and the removal of the iron, rubber, etc., immediately. If the purchasers or purchaser fail or fails to remove the said iron, rubber, etc., within twenty days, the purchase money and the ownership of same shall be forfeited.

WM. E. MELODY, Assistant Commissioner of Public Works, Borough of Brooklyn.

d1,7

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President, Borough of Brooklyn, at the above office, until 11 o'clock a. m. on

WEDNESDAY, DECEMBER 15, 1909.
Borough of Brooklyn.

FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED FOR GAS AND ELECTRIC FIXTURES AND ALL OTHER WORK AS SET FORTH IN THE DRAWINGS AND SPECIFICATIONS FOR THE PUBLIC BATH IN THE BOROUGH OF BROOKLYN, SITUATED ON THE NORTHEAST CORNER OF FOURTH AVENUE AND PRESIDENT STREET, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

The time allowed for the completion of the work and full performance of the contract will be twenty (20) calendar days.

The amount of security required will be One Thousand Dollars ($1,000).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Public Buildings and Offices, No. 29 Municipal Building, the Borough of Brooklyn.

BIRD S. COLER, President.

Dated November 27, 1909.

n29,d15

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m. on

WEDNESDAY, DECEMBER 8, 1909,
Borough of Brooklyn.

No. 1. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF BEDFORD AVENUE, FROM SOUTH SECOND STREET TO SOUTH FOURTH STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

1,050 square yards of wood block pavement, outside of railroad area (five years' maintenance).
250 square yards of wood block pavement, within railroad area (no maintenance).
10 square yards of old stone pavement, to be relaid.
160 cubic yards of concrete for pavement foundation, outside of railroad area.
40 cubic yards of concrete for pavement foundation, within railroad area.
1,000 linear feet of new curbstone, set in concrete.
20 linear feet of old curbstone, reset in concrete.
1 noiseless cover and head, complete, for sewer manhole, furnished and set.

The time allowed for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is Seventeen Hundred Dollars ($1,700).

No. 2. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF FIFTH AVENUE, FROM ATLANTIC AVENUE TO PROSPECT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

18,830 square yards of wood block pavement, outside of railroad area (five years' maintenance).
3,565 square yards of wood block pavement, within railroad area (no maintenance).
115 square yards of old stone pavement, to be relaid.
2,880 cubic yards of concrete for pavement foundation, outside of railroad area.
545 cubic yards of concrete for pavement foundation, within railroad area.
13,440 linear feet of new curbstone, set in concrete.
700 linear feet of old curbstone, reset in concrete.
91 noiseless covers and heads, complete, for sewer manholes, furnished and set.

The time allowed for the completion of the work and the full performance of the contract is eighty (80) working days.

The amount of security required is Thirty Thousand Dollars ($30,000).

No. 3. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF FULTON STREET, FROM ASHLAND PLACE TO VANDERBILT AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

9,460 square yards of asphalt pavement, outside of railroad area (five years' maintenance).
1,380 square yards of asphalt pavement, within railroad area (no maintenance).
40 square yards of old stone pavement, to be relaid.
1,320 cubic yards of concrete, for pavement foundation, outside of railroad area.
190 cubic yards of concrete, for pavement foundation, within railroad area.
4,620 linear feet of new curbstone, set in concrete.
290 linear feet of old curbstone, reset in concrete.
80 noiseless covers and heads, complete, for sewer manholes, furnished and set.

The time allowed for the completion of the work and the full performance of the contract is fifty (50) working days.

The amount of security required is Eighty-three Hundred Dollars ($8,300).

No. 4. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF HICKS STREET, FROM COLES STREET TO LORRAINE STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

6,110 square yards of granite pavement, with tar and gravel joints (one-year maintenance).
30 square yards of old stone pavement, to be relaid.
1,035 cubic yards of concrete for pavement foundation.
2,800 linear feet of new curbstone, set in concrete.
550 linear feet of old curbstone, reset in concrete.
940 square feet of new granite bridgestones.
90 square feet of old bridgestones, relaid.

The time allowed for the completion of the work and the full performance of the contract is sixty (60) working days.

The amount of security required is Eight Thousand Dollars ($8,000).

No. 5. FOR REGULATING AND REPAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF WATER STREET, FROM FULTON STREET TO MAIN STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

1,230 square yards of granite pavement, with tar and gravel joints, laid outside of the railroad area (one-year maintenance).
465 square yards of granite pavement, with tar and gravel joints, laid within the railroad area (no maintenance).
35 square yards of old stone pavement, to be relaid.
210 cubic yards of concrete for pavement foundation, laid outside the railroad area.
75 cubic yards of concrete for pavement foundation, laid within the railroad area.
1,750 linear feet of new curbstone, set in concrete.
100 linear feet of old curbstone, reset in concrete.
310 square feet of new granite bridgestones, laid outside the railroad area.
18 square feet of new granite bridgestones, laid within the railroad area.
235 square feet of old bridgestones, relaid.

The time allowed for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is Twenty-six Hundred Dollars ($2,600).

No. 6. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON FOURTEENTH AVENUE, BETWEEN SIXTIETH STREET AND SIXTY-NINTH STREET, EXCLUDING THE PORTION OF THE STREET OCCUPIED BY THE TRACKS OF THE LONG ISLAND RAILROAD AND THE SEA BEACH RAILROAD, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

4,010 linear feet of new curbstone, set in concrete.
30 linear feet of old curbstone, reset in concrete.
4,240 cubic yards of earth excavation.
980 cubic yards of earth filling, not to be bid for.
220 cubic yards of concrete, not to be bid for.
17,530 square feet of cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is fifty (50) working days.

The amount of security required is Two Thousand Eight Hundred Dollars ($2,800).

No. 7. FOR REGULATING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF ROCKAWAY AVENUE, FROM BLAKE AVENUE TO RIVERDALE AVENUE, AND FROM LOTT AVENUE TO HEGEMAN AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

3,812 square yards of asphalt pavement, outside of railroad area (five years' maintenance).
992 square yards of asphalt pavement, within railroad area (no maintenance).
532 cubic yards of concrete for pavement foundation, outside of railroad area.
138 cubic yards of concrete for pavement foundation, within railroad area.

The time allowed for the completion of the work and the full performance of the contract is thirty-five (35) working days.

The amount of security required is Three Thousand Dollars ($3,000).

No. 8. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON SHEPHERD AVENUE, FROM GLENMORE AVENUE TO PITKIN AVENUE, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

25 linear feet of old curbstone reset in concrete.
270 cubic yards of earth filling (to be furnished).
815 linear feet of cement curb.
1,780 square feet of cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is Two Hundred and Fifty Dollars ($250).

No. 9. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON SHEPHERD AVENUE, FROM LIBERTY AVENUE TO GLENMORE AVENUE, AND FROM PITKIN AVENUE TO NEW LOTS ROAD, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

165 linear feet of old curbstone reset in concrete.
460 cubic yards of earth excavation.
3,670 cubic yards of earth filling (to be furnished).
4,845 linear feet of cement curb.
23,750 square feet of cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is sixty (60) working days.

The amount of security required is Twenty-six Hundred Dollars ($2,600).

No. 10. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON TURNER PLACE, FROM CONEY ISLAND AVENUE TO EAST ELEVENTH STREET, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the quantities is as follows:

110 cubic yards of earth excavation.
90 cubic yards of earth filling (not to be bid for).
775 linear feet of cement curb.
3,180 square feet of cement sidewalk.

The time allowed for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is Three Hundred Dollars ($300).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per square yard, linear foot, cubic yard or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, No. 14 Municipal Building.

BIRD S. COLER, President.

Dated November 22, 1909.

n26,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m. on

WEDNESDAY, DECEMBER 8, 1909.
Borough of Brooklyn.

No. 1. FOR FURNISHING ALL LABOR AND MATERIALS FOR CONSTRUCTING PUMP WELL, SCREEN AND GRIT CHAMBERS AND APPURTENANCES AT THE CONEY ISLAND DISPOSAL WORKS AT NEPTUNE AVENUE AND WEST TWELFTH STREET.

The work for which a lump sum price will be named and upon which the comparison of bids will be made is as follows:

Supply all labor and materials of every kind for constructing pump well, screen and grit chambers and appurtenances at the Coney Island Disposal Works at Neptune avenue and West Twelfth street, complete, in accordance with plans and specifications.

The time allowed for completing the work and the full performance of the contract is one hundred and fifty (150) working days.

The amount of security required is Eight Thousand Dollars ($8,000).

The bids will be compared and the contract awarded at a lump or aggregate sum to the lowest bidder as soon thereafter as practicable according to the law.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, the Borough of Brooklyn, No. 215 Montague street.

BIRD S. COLER, President.

n24,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock a. m. on

WEDNESDAY, DECEMBER 8, 1909.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR CONSTRUCTING SEWER IN SIXTEENTH AVENUE, FROM SIXTY-SIXTH STREET TO SEVENTY-SECOND STREET, WITH OUTLET SEWERS IN SEVENTY-SECOND STREET, FROM SIXTEENTH AVENUE TO SEVENTEENTH AVENUE; IN SEVENTEENTH AVENUE, FROM SEVENTY-SECOND STREET TO SEVENTY-NINTH STREET, AND IN SEVENTY-NINTH STREET, SOUTH SIDE, FROM SEVENTEENTH AVENUE TO SIXTEENTH AVENUE, AND TO RECONSTRUCT TRIBUTARY SEWER IN SEVENTY-NINTH STREET, FROM A POINT ABOUT 200 FEET EAST OF SEVENTEENTH AVENUE TO SEVENTEENTH AVENUE.

The Engineer's preliminary estimate of the quantities is as follows:

305	linear feet of 72-inch reinforced concrete sewer, laid complete, including all incidentals and appurtenances; per linear foot, $12	$3,660 00
905	linear feet of 72-inch brick sewer, laid complete, including all incidentals and appurtenances; per linear foot, $12	10,860 00
555	linear feet of 66-inch brick sewer, laid complete, including all incidentals and appurtenances; per linear foot, $11.50	6,382 50
785	linear feet of 42-inch brick sewer, laid complete, including all incidentals and appurtenances; per linear foot, $6	4,710 00
850	linear feet of 36-inch brick sewer, laid complete, including all incidentals and appurtenances; per linear foot, $5.30	4,505 00
385	linear feet of 36-inch cast-iron pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $8.40	3,234 00
1	intake chamber, complete, including all incidentals and appurtenances	600 00
1	outlet chamber, complete, including all incidentals and appurtenances	450 00
770	linear feet of 30-inch brick sewer, laid complete, including all incidentals and appurtenances; per linear foot, $4	3,080 00
690	linear feet of 24-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $3.20	2,208 00

375 linear feet of 15-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $1.80 ..... 675 00
35 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $1.60 ..... 56 00
1,200 linear feet of 6-inch house connection drains, laid complete, including all incidentals and appurtenances; per linear foot, 70 cents... 2,940 00
71 house connection drains, reconnected complete, including all incidentals and appurtenances; per reconnection, $5 ..... 355 00
47 manholes, complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, $50.. 2,350 00
21 sewer basins, complete, of either standard design, with iron pans or gratings, iron basin hoods and connecting culverts, including all incidentals and appurtenances; per basin, $130..... 2,730 00
6 sewer basins, reconnected complete, including all incidentals and appurtenances; per reconnection, $40..... 240 00
17,000 feet (B. M.) of foundation planking, laid in place complete, including all incidentals and appurtenances; per thousand feet (B. M.), $18 ..... 306 00
167,000 feet (B. M.) of sheeting and bracing, driven in place, complete, including all incidentals and appurtenances; per thousand feet (B. M.), $18 ..... 3,006 00

Total..... $52,347 50

The time allowed for the completion of the work and the full performance of the contract will be two hundred (200) working days.

The amount of security required will be Twenty-five Thousand Dollars ($25,000).

No. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWER IN RIVERDALE AVENUE, BETWEEN THATFORD STREET AND ROCKAWAY AVENUE; RIVERDALE AVENUE, BETWEEN OSBORN STREET AND THE EXISTING SEWER EAST OF WATKINS STREET, AND RIVERDALE AVENUE, BETWEEN CHRISTOPHER AVENUE AND THE EXISTING SEWER EAST OF STONE AVENUE; AND SEWER BASINS ON RIVERDALE AVENUE AT THE NORTHWEST, NORTHEAST AND SOUTHEAST CORNERS OF OSBORN STREET; RIVERDALE AVENUE, AT THE NORTHEAST AND NORTHWEST CORNERS OF STONE AVENUE, AND RIVERDALE AVENUE, AT THE NORTHWEST CORNER OF CHRISTOPHER AVENUE.

The Engineer's preliminary estimate of the quantities is as follows:

775 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $1.60 ..... $1,240 00
900 linear feet of 6-inch house connection drains, laid complete, including all incidentals and appurtenances; per linear foot, 70 cents..... 630 00
9 manholes, complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, $50... 450 00
7 sewer basins, complete, of either standard design, with iron pans or gratings, iron basin hoods and connecting culverts, including all incidentals and appurtenances; per basin, $140..... 980 00
1,500 feet (B. M.) of sheeting and bracing driven in place, complete, including all incidentals and appurtenances; per 1,000 feet (B. M.), $18..... 27 00

Total..... $3,327 00

The time allowed for the completion of the work and the full performance of the contract will be forty (40) working days.

The amount of security required will be One Thousand Five Hundred Dollars ($1,500).

No. 3. FOR FURNISHING ALL THE LABOR AND MATERIAL REQUIRED FOR THE RECONSTRUCTION OF SEWER IN MESEROLE AVENUE, BETWEEN NEWELL STREET AND JEWELL STREET.

The Engineer's preliminary estimate of the quantities is as follows:

491 linear feet of 30-inch pipe sewer, laid complete, including all incidentals and appurtenances; per linear foot, $7..... $3,437 00
5 manholes, complete, with iron heads and covers, including all incidentals and appurtenances; per manhole, $40.. 200 00
10 house connections reconnected, including all incidentals and appurtenances; per connection, $3..... 30 00
2 sewer basins reconnected, including all incidentals and appurtenances; per basin, $8 ..... 16 00
30,000 feet (B. M.) of sheeting and bracing, driven in place, complete, including all incidentals and appurtenances; per thousand feet (B. M.), $18 ..... 540 00
16,000 feet (B. M.) of foundation planking and pile capping, laid in place, complete, including all incidentals and appurtenances; per thousand feet (B. M.), $25..... 400 00
1,700 linear feet of bearing piles, driven in place, complete, including all incidentals and appurtenances; per linear foot, 25 cents..... 425 00

Total..... $5,048 00

The time allowed for the completion of the work and full performance of the contract will be sixty (60) working days.

The amount of security required will be Two Thousand Dollars ($2,000).

The foregoing Engineer's preliminary estimate of the total cost for the completed work is to be taken as the 100 per cent. basis and test for bidding. Proposals shall each state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.), for which all material and work called for in the proposed contract and notices to bidders are to be furnished to the City. Such percentage as bid for the contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, No. 215 Montague street, the Borough of Brooklyn.

BIRD S. COLER, President.

n24,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

MONDAY, DECEMBER 20, 1909,

FOR THE COMPLETION OF THE SUBSTRUCTURE, THE ERECTION OF THE SUPERSTRUCTURE AND THE INSTALLATION OF PLANT, EXCLUSIVE OF INTERIOR FINISH, OF THE MUNICIPAL BUILDING.

The contractor will be required to begin work within five days of the date of certification of the contract by the Comptroller of the City, and will be required to complete the entire work to the satisfaction of the Commissioner and in accordance with the plans and specifications on or before January 1, 1912.

The amount of security to guarantee the faithful performance of the work will be Two Million Dollars ($2,000,000).

The right is reserved by the Commissioner to reject all the bids should he deem it to the interest of the City so to do.

Blank forms and specifications may be obtained at the office of the Department of Bridges.

J. W. STEVENSON, Commissioner.

Dated December 1, 1909.

d2,20

☞ See General Instructions to Bidders on the last page, last column, or the "City Record."

DEPARTMENT OF BRIDGES, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

TUESDAY, DECEMBER 14, 1909.

FOR THE CONSTRUCTION OF A STEEL AND TIMBER TRESTLE AT THE KENT AVENUE BRIDGE, OVER BUSHWICK CREEK, IN THE BOROUGH OF BROOKLYN.

The contractor will be required to begin work within five days of the date of certification of the contract by the Comptroller of the City, and will be required to complete the entire work to the satisfaction of the Commissioner, and in accordance with the plans and specifications, on or before the expiration of two (2) calendar months from the date of such certification.

The amount of security to guarantee the faithful performance of the work will be One Thousand Dollars ($1,000).

The right is reserved by the Commissioner to reject all the bids should he deem it to the interest of the City so to do.

Blank forms and specifications may be obtained at the office of the Department of Bridges.

J. W. STEVENSON, Commissioner.

Dated November 26, 1909.

n29,d14

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF BRIDGES, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

THURSDAY, DECEMBER 9, 1909,

FOR FURNISHING AND DELIVERING ONE DUPLEX STEAM-DRIVEN AIR COMPRESSOR TO THE BROOKLYN BRIDGE.

The time for the delivery of the materials and the performance of the contract will be sixty (60) days from the date of the order of the Commissioner to proceed.

The amount of security to guarantee the faithful performance of the work will be One Thousand Dollars ($1,000).

The right is reserved by the Commissioner to reject all the bids should he deem it to the interest of the City so to do.

Blank forms and specifications may be obtained at the office of the Department of Bridges.

J. W. STEVENSON, Commissioner.

Dated November 23, 1909.

n24,d9

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD OF ASSESSORS.

PUBLIC NOTICE IS HEREBY GIVEN TO the owner or owners of all houses and lots, improved or unimproved lands affected thereby, that the following proposed assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

Borough of Brooklyn.

List 3, No. 1. Regulating, grading, curbing and laying cement sidewalks on Gravesend avenue, from Fort Hamilton avenue to Twenty-second avenue, together with a list of awards for damages caused by a change of grade.

List 562, No. 2. Sewer in Eighty-eighth street, between Fort Hamilton avenue and Fifth avenue; outlet in Gelston avenue, between Eighty-eighth street and Ninety-second street; in both sides of Fort Hamilton avenue, between Eighty-eighth and Ninetieth streets; with outlets between Ninetieth and Ninety-second streets.

List 609, No. 3. Sewer in Eighty-fourth street, between Fort Hamilton avenue and Seventh avenue, and in Eighty-fifth street, between Fort Hamilton avenue and Seventh avenue.

List 637, No. 4. Sewer in Bushwick avenue, from Garden street to Beaver street.

List 643, No. 5. Sewer in East Ninth street, between Ditmas and Eighteenth avenues.

List 673, No. 6. Sewer basin at the northeast corner of Bond and Third streets, and sewer in Third street, from Bond street to Gowanus Canal.

List 685, No. 7. Grading a lot on the south side of Fifty-second street, between Ninth and Tenth avenues, known as Lot No. 11 of Block 5659.

List 732, No. 8. Sewer in Chester street, between Blake avenue and Hunterfly road.

List 734, No. 9. Sewer in Commerce street, between Columbia and Richards streets.

List 735, No. 10. Sewer in Dobbin street, between Meserole and Norman avenues.

List 739, No. 11. Sewer in East Twenty-third street, between Beverley road and a point 220 feet north.

List 743, No. 12. Sewer in Fifty-third street, between Eighth and Ninth avenues.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Gravesend avenue, from Fort Hamilton avenue to Twenty-second avenue, and to the extent of half the block at the intersecting and terminating streets and avenues.

No. 2. Both sides of Gelston avenue and Fort Hamilton avenue, between Eighty-sixth and Ninety-second streets; east side of Fifth avenue, between Eighty-sixth and Ninetieth streets; north side of Ninety-second street and both sides of Ninetieth and Eighty-eighth streets, between Fifth avenue and Gatling place.

No. 3. North side of Eighty-sixth street, both sides of Eighty-fifth and Eighty-fourth streets, between Seventh and Fort Hamilton avenues.

No. 4. West side of Bushwick avenue, from Beaver street to a point about 405 feet northerly; east side of Bushwick avenue, between Beaver street and Forrest street; south side of Noll street, between Bushwick avenue and Bremen street, and Lot No. 32 of Block 3151, fronting on Burr place.

No. 5. Both sides of East Ninth street, from Ditmas avenue to Eighteenth avenue.

No. 6. Both sides of Third street, from Bond street to Gowanus Canal, and east side of Bond street, between Second and Third streets.

No. 7. South side of Fifty-second street, between Ninth and Tenth avenues, Lot No. 11, Block 5659.

No. 8. Both sides of Chester street, between Blake avenue and Dumont avenue.

No. 9. Both sides of Commerce street, between Columbia and Richards streets.

No. 10. Both sides of Dobbin street, from Norman avenue to Meserole avenue.

No. 11. Both sides of Twenty-third street, from Beverley road to a point about 218 feet northerly.

No. 12. Both sides of Fifty-third street, between Eighth and Ninth avenues; east side of Eighth avenue, from Fifty-third to Fifty-second street, and south side of Fifty-second street, between Eighth and Ninth avenues.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before January 4, 1910, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

ANTONIO ZUCCA,
PAUL WEIMANN,
JAMES H. KENNEDY,
Board of Assessors.

WILLIAM H. JASPER, Secretary.

No. 320 Broadway, City of New York, Borough of Manhattan, December 2, 1909.

d2,13

PUBLIC NOTICE IS HEREBY GIVEN TO the owner or owners of all houses and lots, improved or unimproved lands affected thereby, that the following proposed assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

Borough of Manhattan.

List 631, No. 1. Sewer in West One Hundred and Sixty-seventh street, between Amsterdam and Audubon avenues.

List 811, No. 2. Basin at the northeast corner of One Hundred and Eleventh street and Riverside drive.

List 862, No. 3. Basin at the north side of Manhattan street, 87 feet west of Twelfth avenue.

List 864, No. 4. Sewer in West One Hundred and Seventy-second street, between Fort Washington avenue and Broadway.

Borough of The Bronx.

List 279, No. 5. Sewer in Garrison avenue, between Longwood avenue and Whittier street.

List 294, No. 6. Regulating, grading, curbing, flagging, laying crosswalks, building approaches and erecting fences in Andrews avenue, from Burnside avenue to West One Hundred and Eightieth street.

List 393, No. 7. Regulating, grading, curbing, flagging, laying crosswalks, building approaches and erecting fences in Mosholu Parkway North, from Jerome avenue to Gun Hill road.

List 804, No. 8. Paving with creo-resinate wood blocks Charlotte street, from Boston road to Jennings street, and setting curb where necessary.

List 871, No. 9. Receiving basin on the south side of East One Hundred and Ninety-third street, at the intersection of Morris avenue.

Borough of Richmond.

List 557, No. 10. Sewer in Tompkins avenue, from a point 175 feet north of Arrietta street northerly to a point about 395 feet north of Wall street; Fort place, from Tompkins avenue to Belmont place; in Monroe avenue, from a point 150 feet north of Richmond turnpike to Fort place; in Montgomery avenue, from a point 160 feet north of Richmond turnpike to Fort place; in Madison avenue, from First avenue to Fort place; in Sherman avenue, from First avenue to Fort place; in First avenue, from Sherman avenue to Westervelt avenue; all being in the district known as Sewer District No. 1-D, in the First Ward.

List 695, No. 11. Sewer in Richmond terrace, from Harbor road to a point about 880 feet west of Arlington avenue; in Mesereau avenue, from Cedar street to Richmond terrace; in Lockman avenue, from Richmond terrace to a point about 950 feet south therefrom; in Andros avenue, from Cedar street to Richmond terrace; in Harbor road, from a point about 940 feet south of Richmond terrace northerly to the present bulkhead wall of the public dock, with a separate sanitary outlet thence to the pier line; all being within the district known as Sewer District 19-A, Third Ward.

List 728, No. 12. Sewers in Lockman avenue, from a point about 950 feet south of Richmond terrace southerly for about 275 feet, and in Cherry lane, from the existing sewer in Marrianne street to a point near Palmers run.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Sixty-seventh street, extending westerly from Amsterdam avenue about 275 feet.

No. 2. North side of One Hundred and Eleventh street, from Broadway to Riverside drive.

No. 3. North side of Manhattan street, extending westerly from Twelfth avenue about 96 feet; west side of Twelfth avenue, extending northerly from Manhattan street about 102 feet.

No. 4. Both sides of One Hundred and Seventy-second street, from Fort Washington avenue to Broadway; also block bounded by One Hundred and Seventy-second and One Hundred and Seventy-third streets, Broadway and Fort Washington avenue.

No. 5. Both sides of Garrison avenue, from Longwood avenue to Hunts Point road; both sides of Manida street; Barretto street and Tiffany street, from Lafayette avenue to Garrison avenue; both sides of Lafayette avenue, from Garrison avenue to Tiffany street; both sides of Burnett place and Old One Hundred and Forty-seventh street, from Barry street to Garrison avenue.

No. 6. Both sides of Andrews avenue, from Burnside avenue to West One Hundred and Eightieth street, and to the extent of half the block at the intersecting and terminating streets.

No. 7. Both sides of Mosholu Parkway North, from Jerome avenue to Gun Hill road, and to the extent of half the block at the intersecting streets.

No. 8. Both sides of Charlotte street, from Boston road to Jennings street, and to the extent of half the block at the intersecting streets.

No. 9. South side of One Hundred and Ninety-third street and west side of Crescent avenue, known as St. James place, on Block 3177, Lot No. 1, and Block 3191, Lot No. 1.

No. 10. Both sides of Sherman avenue and Madison avenue, from First avenue to Fort place; both sides of Monroe avenue and Montgomery avenue, from First avenue turnpike to Fort place; both sides of Tompkins, from Arrietta street to Hamilton avenue; both sides of Belmont street, from Fort place to Vine street; both sides of Vine street, from Belmont street to Daniel Low terrace; both sides of Daniel Low terrace, from Vine street to Fort place; both sides of First avenue turnpike, from Westervelt avenue to Sherman avenue; both sides of Fourth avenue, from Westervelt avenue to Monroe avenue; both sides of Fifth avenue, from Westervelt avenue to Sherman avenue; both sides of Fort place, from Sherman avenue to Tompkins avenue, and both sides of Wall street, from Belmont street to Tompkins avenue.

No. 11. Both sides of Richmond terrace, commencing about 160 feet east of Holland avenue and extending to Harbor road; both sides of Harbor road, extending from Richmond terrace to a point about 200 feet north of the Staten Island Rapid Transit Company; both sides of Lockman avenue, extending southerly to a point about 400 feet north of the Staten Island Rapid Transit Company; both sides of Andros avenue, extending southerly to a point about 90 feet south of Cedar street; both sides of Cedar street, from Mesereau avenue to Andros avenue; both sides of Mesereau avenue, from Richmond terrace to Cedar street; both sides of Post lane, from Richmond terrace to Cowen place; both sides of Bay street, from Grandview avenue to its termination east of Andros avenue; both sides of Cowen place, from Grandview avenue to end of street east of Post lane; both sides of Grandview avenue, from Arlington place to Richmond terrace; both sides of South avenue, extending to a point about 450 feet north of Arlington place; both sides of Arlington avenue and west side of Franklin avenue, extending to a point about 763 feet south of Richmond terrace; west side of Franklin avenue, extending about 550 feet south of Richmond terrace.

No. 12. Both sides of Cherry lane, commencing about the centre of Marrianne street and extending westerly about 472 feet; both sides of Lockman avenue, commencing about 150 feet north of the Staten Island Rapid Transit Railroad and extending northerly about 250 feet.

All persons whose interests are affected by the above-named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before December 28, 1909, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

ANTONIO ZUCCA,
PAUL WEIMANN,
JAMES H. KENNEDY,
Board of Assessors.

WILLIAM H. JASPER, Secretary.

No. 320 Broadway, City of New York, Borough of Manhattan, November 27, 1909.

n27,d8

PUBLIC NOTICE IS HEREBY GIVEN TO the owner or owners of all houses and lots, improved or unimproved lands affected thereby, that the following proposed assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

Borough of Brooklyn.

List 7, No. 1. Regulating, grading, curbing and laying cement sidewalks on Ninetieth street, between Third and Fifth avenues, together with a list of awards for damages caused by a change of grade.

List 338, No. 2. Regulating, grading, curbing and paving with asphalt East Thirty-second street, from Glenwood road to Avenue H.

List 509, No. 3. Receiving basins on Bedford avenue, at the northeast and northwest corners of Carroll street; northeast and northwest corners of Crown street, northeast corner of Montgomery street, southeast corner of Linden avenue, northeast and northwest corners of Church avenue, and at the intersection of the westerly curb line of Bedford avenue with the easterly curb line of Flatbush avenue.

List 559, No. 4. Sewer in Benson avenue, between Bay Twenty-sixth street and Twenty-first avenue; basins on Bay Twenty-sixth street, at the westerly corner of Eighty-sixth street; at the easterly corner of Cropsey avenue; at the north and west corners of Benson avenue and Bay Twenty-sixth street.

List 612, No. 5. Sewer in Fourth avenue, west side, between Ninety-second and Ninety-fifth streets, with outlet in Fourth avenue, westerly side, between Ninety-fifth street and Marine avenue, and in Ninety-fourth street, between Fourth and Fifth avenues.

List 681, No. 6. Paving with asphalt Blake avenue, from Hopkinson avenue to Junius street.

List 730, No. 7. Laying cement sidewalks on the north side of Arlington avenue, between Shepherd avenue and Dresden street, and between Dresden street and Hale avenue; south side of Devoe street, between Morgan avenue and Catherine street; south side of Metropolitan avenue, between Morgan avenue and Vandervoort avenue; west side of Catherine street, from Devoe street to Metropolitan avenue; east side of Diamond street, between Nassau avenue and Driggs avenue; southeast side of Noll street, between Hamburg and Flushing avenues; northwest side of Noll street, between Hamburg and Flushing avenues.

List 733, No. 8. Sewer basin at the southeast corner of Chester street and Dumont avenue.

List 736, No. 9. Sewer basin at the southwest corner of East Eleventh street and Hinckley place.

List 737, No. 10. Sewer basin at the northwest corner of East Twelfth street and Slocum place.

List 742, No. 11. Sewer basin at the northeast corner of Emmons avenue and East Twenty-sixth street.

List 763, No. 12. Sewer basin at the southeast corner of Sixth street and Eighth avenue.

List 877, No. 13. Paving with asphalt Ditmas avenue, between Flatbush and Ocean avenues.

List 9936, No. 14. Regulating, grading, curbing and laying cement sidewalks on Twentieth street, between Tenth avenue and Vanderbilt street, together with a list of awards for damages caused by a change of grade.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Ninetieth street, from Third avenue to Fifth avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of East Thirty-second street, from Glenwood road to Avenue H, and to the extent of half the block at the intersecting streets.

No. 3. Both sides of Bedford avenue, from Crown street to President street, and east side, from Montgomery street to Crown street; north side of Montgomery street and south side of Crown street, between Franklin and Rogers avenues; north side of Crown street, both sides of Carroll, between Franklin and Rogers avenues; block bounded by Bedford, Newkirk and Flatbush avenues; north side of Church avenue and south side of Martense street, between Bedford and Flatbush avenues; north side of Church avenue, and south side of Linden avenue, between Rogers and Bedford avenues.

No. 4. Both sides of Bay Twenty-fifth and Bay Twenty-sixth streets, from Benson avenue to Eighty-sixth street; south side of Bay Twenty-fifth street, extending about 122 feet south of Benson avenue; both sides of Benson avenue, from Twentieth avenue to Twenty-first avenue; south side of Eighty-sixth street, from Bay Twenty-fifth street to Bay Twenty-sixth street; east side of Bay Twenty-sixth street, extending about 275 feet north from Cropsey avenue.

No. 5. West side of Fourth avenue, from Ninety-second to Ninety-eighth street; also triangle bounded by Ninety-second and Ninety-fifth streets, Fourth and Fifth avenues.

No. 6. Both sides of Blake avenue, from Hopkinson avenue to Junius street, and to the extent of half the block at the intersecting streets.

No. 7. North side of Arlington avenue, extending about 75 feet west of Dresden avenue; north side of Arlington avenue, extending about 50 feet east of Dresden avenue; south side of Devoe street, commencing about 250 feet east of Catherine street, and extending westerly about 50 feet; south side of Metropolitan avenue, extending about 450 feet east of Morgan avenue; west side of Catherine street, from Devoe street to Metropolitan avenue; east side of Diamond street, commencing about 200 feet south of Nassau avenue and extending southerly about 25 feet; south side of Noll street, commencing about 200 feet east of Hamburg avenue and extending easterly 50 feet; north side of Noll street, commencing about 75 feet east of Hamburg avenue and extending easterly about 25 feet.

No. 8. East side of Chester street, extending southerly from Dumont avenue about 358 feet.

No. 9. South side of Hinckley place, from Coney Island avenue to East Eleventh street; east side of Coney Island avenue and west side of East Eleventh street, from Beverley road to Hinckley place.

No. 10. North side of Slocum place, extending westerly from East Twelfth street, about 100 feet; west side of East Twelfth street, extending northerly from Slocum place, about 268 feet.

No. 11. East side of East Twenty-sixth street, extending northerly from Emmons avenue, about 645 feet.

No. 12. East side of Eighth avenue and west side of Prospect Park West, from Sixth street to Seventh street; south side of Sixth street, from Eighth avenue to Prospect Park West.

No. 13. Both sides of Ditmas avenue, from Flatbush avenue to Ocean avenue, and to the extent of half the block at the intersecting streets.

No. 14. Both sides of Twentieth street, from Tenth avenue to Vanderbilt avenue, and to the extent of half the block at the intersecting streets.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before December 28, 1909, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

ANTONIO ZUCCA,
PAUL WEIMANN,
JAMES H. KENNEDY,
Board of Assessors.

WILLIAM H. JASPER,
Secretary, No. 320 Broadway.
City of New York, Borough of Manhattan, November 26, 1909.

n26,d7

BOARD OF ESTIMATE AND APPORTIONMENT.

Public Improvement Matters.

NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment, held on November 19, 1909, the following resolutions were adopted:

Whereas, The Board of Water Supply of The City of New York, pursuant to chapter 724 of the Laws of 1905 as amended, has submitted to the Board of Estimate and Apportionment a report and plan which bears the date of November 15, 1909, and is entitled "Map and profile showing manner of delivering the water to the several boroughs;" said map being now on file in the office of the Board of Water Supply of The City of New York, No. 299 Broadway, New York City; now, therefore, be it

Resolved, That the 3d day of December, 1909, at 10.30 o'clock in the forenoon, at Room 16 in the City Hall, in The City of New York, be fixed as the time and place for a public hearing upon the said report and plan, and that notice be given of such public hearing by publication in the CITY RECORD and in the newspapers designated by the Board of City Record as official City papers; and be it further

Resolved, That the Secretary of this Board be directed to give such notices as are provided for in said statute.

Dated November 22, 1909.

JOSEPH HAAG, Secretary,
No. 277 Broadway, Room 1406.
Telephone, 2280 Worth.

n22,d3

Franchise Matters.

PUBLIC NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN THAT at the meeting of the Board of Estimate and Apportionment held this day, the following proceedings were had:

Whereas, The East River Terminal Railroad has under date of October 13, 1909, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate railroad tracks by locomotive steam power upon Wythe avenue, Kent avenue and North Fifth, North Sixth, North Seventh, North Eighth and North Ninth streets, in the Borough of Brooklyn; and

Whereas, Section 92 of the Railroad Law, and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on October 22, 1909, fixing the date for public hearing thereon as November 19, 1909, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the "Brooklyn Citizen" and the "Standard Union," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing, and the public hearing was duly held on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the East River Terminal Railroad and the adequacy of the compensation proposed to be paid therefor; now therefore it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the East River Terminal Railroad containing the form of proposed contract for the grant of such franchise or right be hereby introduced and entered in the minutes of this Board as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the East River Terminal Railroad the franchise or right fully set out and described in the following form of proposed contract for the grant thereof embodying all the terms and conditions including the provisions as to rates, fares and charges upon and subject to the terms and conditions in said proposed form of contract contained and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.

This contract, made this day of , 19 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the East River Terminal Railroad (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate railroad tracks either at the grade of the surface of the streets and avenues or above or below the grade thereof, as shall be determined by the Public Service Commission for the First District of the State of New York, pursuant to law, for the purpose of conveying goods, wares and merchandise only, in the Borough of Brooklyn, City of New York, as follows:

(a) One track in the centre of North Fifth street, beginning at a point about three hundred and forty (340) feet westerly from the westerly side line of Kent avenue; running thence easterly to a point distant about fourteen (14) feet westerly from the westerly side line of Kent avenue, together with a spur track beginning at a point on the first mentioned track about two hundred and forty (240) feet westerly from the westerly side line of Kent avenue, and running thence northwesterly across the northerly side of North Fifth street to a point distant about three hundred and seventeen (317) feet westerly from the westerly side line of Kent avenue.

(b) One track on the northerly side of North Fifth street, beginning at a point on the northerly side line of said street about three hundred and eleven (311) feet westerly from the westerly side line of Kent avenue; running thence easterly along the northerly side of North Fifth street to the westerly side of Kent avenue; thence crossing Kent avenue to the easterly side thereof, and continuing along the northerly side of North Fifth street to the westerly side line of Wythe avenue, together with the following spur tracks:

(1) One spur track beginning at a point about forty (40) feet westerly from the westerly side line of Kent avenue; and running thence northwesterly across North Fifth street to the northerly side line of said North Fifth street at a point about ninety-seven (97) feet westerly from the westerly side line of Kent avenue.

(2) One spur track beginning just easterly of the easterly side line of Kent avenue, thence running southerly across North Fifth street to a point on the southerly side line thereof, distant about one hundred and three (103) feet easterly from the easterly side line of Kent avenue.

(3) One spur track beginning just easterly of the easterly side of Kent avenue; thence crossing North Fifth street to the southerly side thereof, and continuing along said southerly side between the curb and building lines of said street to the westerly side line of Wythe avenue.

(c) One track on the northerly side of North Fifth street, beginning at a point about sixty (60) feet westerly from the westerly side line of Wythe avenue; running thence easterly across the northerly side of North Fifth street to the westerly side of Wythe avenue; thence crossing Wythe avenue in an easterly direction to the easterly side line thereof at a point about twelve (12) feet northerly from the northerly side line of North Fifth street.

(d) Four tracks beginning at the westerly side line of Wythe avenue; thence crossing Wythe avenue to the easterly side line thereof, all of such tracks to be situated in that portion of Wythe avenue between the northerly side line of North Fifth street and a line parallel thereto and distant approximately fifty (50) feet northerly therefrom.

(e) Two tracks beginning at the westerly side line of Kent avenue, thence crossing Kent avenue to the easterly side line thereof, both of said tracks to be situated in that portion of Kent avenue included between the northerly side line of North Fifth street and a line parallel with and distant about thirty-five (35) feet northerly therefrom.

(f) One track on the southerly side of North Sixth street, beginning at the bulkhead line on the easterly side of the East River; running thence southeasterly along the southerly side of North Sixth street to a point on the southerly side line of North Sixth street, distant about four hundred and fifty-two (452) feet westerly from the westerly side line of Kent avenue, together with a spur track on the southerly side of North Sixth street beginning at the bulkhead line and running thence southeasterly to a point on the southerly side line of North Sixth street distant about five hundred and sixty-one (561) feet westerly from the westerly side line of Kent avenue.

(g) One track on the northerly side of North Sixth street, beginning at the bulkhead line on the easterly side of the East River; running thence easterly along the northerly side of North Sixth street to a point thereon about forty (40) feet westerly from the westerly side line of Kent avenue.

(h) Two tracks beginning at the southerly side line of North Seventh street; thence crossing North Seventh street to the northerly side line thereof, both of said tracks to be situated in that portion of North Seventh street included between a line parallel with and distant about five hundred and fifty-four (554) feet westerly from the westerly side line of Kent avenue and a line parallel with and distant about five hundred and eighty-five (585) feet westerly from the westerly side line of Kent avenue.

(i) One track beginning at a point on the northerly side line of North Seventh street about five hundred and fifty-five (555) feet westerly from the westerly side line of Kent avenue; thence curving southerly and easterly across North Seventh street to the southerly side thereof; thence easterly along said southerly side of North Seventh street to a point about thirteen (13) feet westerly from the westerly side line of Kent avenue.

(j) One track on the northerly side of North Eighth street beginning at a point on the northerly side line of said street distant about five hundred and seventy-seven (577) feet westerly from the westerly side line of Kent avenue; running thence southeasterly along the northerly side of North Eighth street to a point about one hundred and eighty (180) feet westerly from the westerly side line of Kent avenue.

(k) One track beginning at a point on the southerly side line of North Eighth street distant about five hundred and fifty-two (552) feet westerly from the westerly side line of Kent avenue; running thence northwesterly across North Eighth street to the northerly side line thereof at a point distant about six hundred and thirty-three (633) feet westerly from the westerly side line of Kent avenue.

(l) One track beginning at a point on the southerly side line of North Eighth street distant about five hundred and ninety-six (596) feet westerly from the westerly side line of Kent avenue; running thence northwesterly across North Eighth street to the northerly side line thereof at a point distant about six hundred and thirty-three (633) feet westerly from the westerly side line of Kent avenue.

(m) Two tracks beginning at the northerly side line of North Eighth street; thence crossing North Eighth street to the southerly side line thereof, both of said tracks to be situated in that portion of North Eighth street included between a line parallel with and distant about six hundred and thirty-three (633) feet westerly from the westerly side line of Kent avenue and a line parallel with and distant about six hundred and seventy-one (671) feet westerly from the westerly side line of Kent avenue.

(n) One track beginning on the northerly side line of North Ninth street at a point distant about six hundred and seventy-six (676) feet westerly from the westerly side line of Kent avenue; thence curving southwesterly across North Ninth street to the southerly side line thereof at a point distant about six hundred and ninety-six (696) feet westerly from the westerly side line of Kent avenue.

(o) One track on North Ninth street beginning at a point in the centre thereof about one hundred and thirty-seven (137) feet westerly from the westerly side line of Kent avenue; running thence westerly to the bulkhead line on the easterly side of the East River, together with the following spur tracks:

(1) One spur track beginning at a point in the centre of North Ninth street distant about six hundred and seventy-six (676) feet westerly from the westerly side line of Kent avenue; running thence easterly to a point on the northerly side of North Ninth street distant about five hundred and eighty-seven (587) feet westerly from the westerly side line of Kent avenue.

(2) One spur track beginning at a point in the centre of North Ninth street distant about four hundred and sixteen (416) feet westerly from the westerly side line of Kent avenue; running thence northwesterly to the northerly side line of North Ninth street at a point about five hundred and sixteen (516) feet westerly from the westerly side line of Kent avenue, together with a branch beginning at a point distant about four hundred and sixty (460) feet westerly from the westerly side line of Kent avenue; running thence northwesterly to the northerly side line of North Ninth street at a point distant about five hundred and eighty-seven (587) feet westerly from the westerly side line of Kent avenue, and a branch to the last above described branch beginning at a point in North Ninth street distant about five hundred and fifty (550) feet westerly from the westerly side line of Kent avenue; running thence northwesterly to the northerly side line of North Ninth street at a point distant about six hundred and forty-seven (647) feet westerly from the westerly side line of Kent avenue.

(p) One track on a trestle beginning at the bulkhead at the easterly side of the East River, running thence southeasterly across North Ninth street to the southerly side line thereof at a point distant about six hundred and thirty-six (636) feet westerly from the westerly side line of Kent avenue, together with two spur tracks each beginning at a point on the above mentioned track distant about six hundred and seventy-six (676) feet westerly from the westerly side line of Kent avenue, and both running thence southeasterly about forty (40) feet to a point on the southerly side line of North Ninth street, all of said tracks being elevated about twenty-two (22) feet above the grade of the street.

Said tracks hereby authorized are shown upon a map entitled:

"Map showing proposed railroad of the East River Terminal Railroad, in the Borough of Brooklyn, City of New York, to accompany petition, dated October 13, 1909, to the Board of Estimate and Apportionment."

—and signed by the East River Terminal Railroad, H. O. Havemeyer, treasurer, a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed. Provided that deviations therefrom which are consistent with the foregoing description, and the other provisions of this contract, may be permitted by resolution of the Board.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railroad shall be obtained by the Company within one (1) month from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall within said one (1) month or within one (1) month thereafter make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law, to determine if said railroad ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railroad shall be held and enjoyed by the Company for the term beginning on the date upon which this contract is signed by the Mayor, and ending March 15, 1924, with the privilege of renewal of said contract for the further period of ten (10) years upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time, not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year of this original contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding ten (10) years shall be reasonable, and either the City (by the Board) or the Company shall be bound, upon request of the other, to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board, one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of this original contract. If, in any case, the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any other cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract, within the streets and avenues, shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this grant as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of the tracks and other equipment constructed pursuant to this contract, and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Fourth—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of three thousand dollars ($3,000) in cash within thirty (30) days after the date on which this contract is signed by the Mayor.

(b) During the first term beginning on the date when this contract is signed by the Mayor and continuing until March 15, 1919, an annual sum of one thousand six hundred dollars ($1,600).

During the remaining term of five (5) years an annual sum of three thousand two hundred dollars ($3,200).

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fifth—The annual charges or payments shall continue throughout the whole term of this contract, whether original or renewal, notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payments for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted, whether original or renewal, or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations, or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under

seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Said railway shall be maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

Eighth—The street surface passenger railway now operated upon Kent avenue shall have the right of way over the cars or trains operated upon the tracks hereby authorized.

Ninth—Cars may be operated upon said tracks by steam locomotives, which shall be housed or boxed so as to conform with the type commonly known as the dummy engine, or by any other motive power which may be approved by the Board and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York, provided, however, that the Board, upon giving to the grantee one year's notice, may require the Company to operate its railroad upon the whole or any portion of the tracks hereby authorized by such system of electric power as may be designated by the Board, and the Company shall thereupon discontinue the use of steam locomotives from such tracks.

Tenth—Neither passengers nor vehicles shall be prevented from crossing the tracks hereby authorized in Kent and Wythe avenues, or in North Fifth street, between Kent and Wythe avenues, and crossing said North Fifth street, from the southerly to the northerly side thereof, by the occupation of such tracks by cars or trains operated thereon for a greater period than five consecutive minutes at any time, and the aggregate of such periods shall not exceed ten minutes in any hour between 7 o'clock a. m. and 6 o'clock p. m.

Eleventh—Should the Company be allowed to operate at the grade of streets and avenues, it shall erect, maintain and operate gates across Kent avenue, at or near the southerly side line of North Fifth street, at or near the northerly side line of North Fifth street, and at a point about thirty-five (35) feet northerly from the northerly side line of North Fifth street; also gates across Wythe avenue, at or near the northerly side line of North Fifth street and at a point about forty-five (45) feet northerly from said northerly side line of North Fifth street, which gates shall be closed so as to exclude pedestrians and vehicles from the tracks hereby authorized in Kent and Wythe avenues when cars or trains are operated thereon. In addition the Company shall station flagmen for the protection of persons and property at such other points as may be necessary whenever cars or trains are moved on any of the tracks hereby authorized. Should it seem necessary in the opinion of the Board that gates other than those herein required should be maintained for the protection of persons or property, the Company shall erect, maintain and operate such gates upon thirty (30) days' notice by the Board to the Company.

Twelfth—As long as the said tracks, or any portion thereof, shall remain in the streets and avenues, the Company shall set the curbs and pave the roadway and sidewalk and keep the same in permanent repair upon that portion of the surface of Kent avenue, between the southerly side line of North Fifth street and a point thirty-five (35) feet northerly from the northerly side line of North Fifth street; that portion of Wythe avenue between the northerly side line of North Fifth street and a point fifty (50) feet northerly therefrom; that portion of North Fifth street, between the westerly side line of Wythe avenue and the easterly side line of Kent avenue, and those portions of North Fifth street, North Sixth street, North Seventh street, North Eighth street and North Ninth street, between the rails of the tracks hereby authorized in said streets and for a distance of two (2) feet beyond such rails on either side thereof, all to be done under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. The City shall have the right to change the material or character of the pavement of any such streets and avenues, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City officer at its own expense, and the provision as to repairs herein contained shall apply to such renewed or altered pavement.

Thirteenth—The Company shall at all times keep that portion of the surface of Kent avenue between the southerly side line of North Fifth street and a point thirty-five (35) feet northerly from the northerly side line of North Fifth street, that portion of Wythe avenue between the northerly side line of North Fifth street and a point fifty (50) feet northerly therefrom; that portion of North Fifth street between the westerly side line of Wythe avenue and the easterly side line of Kent avenue, and those portions of North Fifth street, North Sixth street, North Seventh street, North Eighth street and North Ninth street between the rails of the tracks hereby authorized in said streets, and for a distance of two (2) feet beyond such rails on either side thereof, free and clear from snow and ice, provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clear an equivalent amount of street surface from house line to house line.

Fourteenth—The Company shall within thirty (30) days from the date on which this contract is signed by the Mayor remove from North Seventh street the five (5) tracks crossing said street from the southerly side line thereof to the northerly side line thereof between a line parallel with the westerly house line of Kent avenue and distant about five hundred and seventy-five (575) feet westerly therefrom and a line parallel with the westerly house line of Kent avenue and distant about six hundred and thirty-five (635) feet westerly therefrom; and shall within thirty (30) days from the date on which this contract is signed by the Mayor remove from North Fifth street the track beginning at a point on the spur track along the southerly side of said North Fifth street about one hundred and ten (110) feet easterly from the easterly side line of Kent avenue, and running thence easterly along the southerly side of North Fifth street and parallel with the above-mentioned track on the southerly side of said street to a point about three (3) feet westerly from the westerly side line of Wythe avenue, together with the spur track or crossover beginning at a point about two hundred and fifty (250) feet easterly from the easterly side line of Kent avenue; thence crossing North Fifth street in a westerly direction to a point on the last above-described track about one hundred and sixty (160) feet easterly from the easterly side line of Kent avenue, and shall thereupon restore the surfaces of said North Seventh street, and said North Fifth street, between the above-described limits to their original condition.

Fifteenth—Should the grades or lines of the streets and avenues in which said tracks are hereby authorized be changed at any time after the railroad has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said street the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Sixteenth—It is agreed that the right hereby granted to operate a railroad shall not be in preference or in hindrance to public work of the City, and should the said railroad in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Seventeenth—Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railroad, shall be made at the sole cost of the Company and in such manner as the proper City officials may prescribe.

Eighteenth—The said railroad shall be constructed and operated in the latest approved manner of street railroad construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railroad equipment, including rolling stock and railroad appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Nineteenth—The rates for carrying property upon the tracks hereby authorized shall in all cases be reasonable in amount, subject to the control of the Board, and may be fixed by the Board after notice to the Company, and a hearing had thereon, and when so fixed such rates shall be binding upon the Company, and no rates in excess of those fixed shall be charged for such service.

Twentieth—The Company shall at all times keep accurate books of account of the gross earnings from all sources, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross earnings, total miles in operation and the miles of railroad constructed and operated under this contract and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-first—In case of any violation or breach or failure to comply with any of the provisions herein contained, this contract may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railroad constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity.

Provided, however, that such action by the Board shall not be taken until the Board shall have given notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-second—If the Company shall fail to give efficient public service or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company, specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall for each day thereafter during which the default or defect remains pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets, shall not be put in good condition within a reasonable time after notice by the Board as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-third—The company shall assume all liability to persons or property by reason of the construction or operation of the railroad authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Twenty-fourth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of five thousand dollars ($5,000), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract, especially those which relate to the payment of the annual charges for the privilege hereby granted, the efficiency of the public service rendered, the repairs of the street pavement, the removal of snow and ice and the quality of the construction of the railroad, and in the case of default in the performance by the Company of such terms and conditions the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice in writing to the Company; or in case of failure to keep the said terms and conditions of this contract relating to obstruction of traffic, the maintenance of gates and flagmen, the repair of pavements and removal of snow and ice, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company directing its president or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing, appears, in the judgment of the Board, to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure, direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice in writing, pay to the City a sum sufficient to restore said security fund to the original amount of five thousand dollars ($5,000), and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Twenty-fifth—The grant of this privilege is subject to whatever right, title or interest the owners of abutting property or others may have in and to the streets, avenues and highways in which the Company is authorized to operate.

Twenty-sixth—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Twenty-seventh—The words "streets or avenues" and "streets and avenues" wherever used in this contract shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title" encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railroad.

Twenty-eighth—If at any time the powers of the Board or any other of the authorities herein mentioned, or intended to be mentioned, shall be transferred by law to any other Board, authority, officer or officers, then and in such case such other Board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Sec. 4. This grant is also upon the further and express condition that the provisions of the Railroad Law pertinent hereto shall be strictly complied with by the Company.

Sec. 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms and conditions and requirements in this contract fixed and contained.

In witness whereof the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed, and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By ....., Mayor.

[CORPORATE SEAL.]
Attest:
....., City Clerk.

EAST RIVER TERMINAL RAILROAD,
By ....., President.

[SEAL.]
Attest:
....., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor and of the terms and conditions including the provision as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the East River Terminal Railroad and the said form of a proposed contract for the grant of such franchise or rights, containing said results of such inquiry after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, December 23, 1909, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, December 23, 1909, in two daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the East River Terminal Railroad, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the East River Terminal Railroad and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will at a meeting of said Board to be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, December 23, 1909, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

Dated New York, November 19, 1909.

JOSEPH HAAG, Secretary.
n30,d23

PUBLIC NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN that at the meeting of the Board of Estimate and Apportionment, held this day, the following proceedings were had:

Whereas, The Bush Terminal Railroad Company has, under date of August 17, 1909, made application to this Board for a grant of the right, privilege and franchise to construct, maintain and operate an extension to its existing street surface railway system upon and along First avenue, near Forty-first street, in the Borough of Brooklyn; and

Whereas, Section 92 of the Railroad Law, and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws this Board adopted a resolution on September 17, 1909, fixing the date for a public hearing thereon as October 15, 1909, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the Brooklyn "Citizen" and the Brooklyn "Times," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing and the public hearing was duly held on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the Bush Terminal Railroad Company, and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of resolution for the grant of the franchise or right applied for by the Bush Terminal Railroad Company, containing the form of proposed contract for the grant of such franchise or right, be hereby introduced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Bush Terminal Railroad Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all the terms and conditions, including the provisions as to rates, fares and charges, upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.

This contract, made this day of 19 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Bush Terminal Railroad Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutal covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track street surface railway as an extension to its existing lines, with the necessary wires and equipment, for the purpose of conveying passengers only, in the Borough of Brooklyn, in The City of New York, upon the following routes, to wit:

(1) Beginning at a point near the Brooklyn terminus of the Thirty-ninth Street Municipal Ferry, on property belonging to The City of New York and under the jurisdiction of the Department of Docks and Ferries, about ninety-five (95) feet northerly from the southerly line of Thirty-ninth street, if the same were produced, and about five hundred and eighty (580) feet westerly of the westerly line of First avenue, if the same were produced; thence easterly and generally parallel with Thirty-ninth street, by double track, upon and along said property of The City of New York for a distance of about nine hundred and thirty (930) feet; thence southerly and generally parallel with First avenue, by double or single track, upon and along private property for a distance of about two hundred and eighty (280) feet; thence westerly and generally parallel with Forty-first street, by single track, upon and along private property, about six hundred (600) feet, and thence southerly and generally parallel with First avenue, by single or double track, upon and along private property for a distance of about two thousand five hundred and eighty (2,580) feet, to a point approximately in line with the prolongation of Fiftieth street.

(2) Also beginning at a point in the northerly line of Forty-first street, about two hundred and forty (240) feet easterly from the easterly line of First avenue; thence northerly and generally parallel with First avenue, by single track, upon and along private property, for a distance of about three hundred (300) feet, and there connecting with the tracks above described.

(3) Also beginning at a point in the centre of First avenue, about one hundred (100) feet northerly from the northerly line of Forty-second street; thence northerly, by double track, upon and along First avenue for a distance of about one hundred and seventy (170) feet to the northerly side of Forty-first street; thence northerly in line of the prolongation of First avenue, by single track, upon and along private property, for a distance of about two hundred and twenty (220) feet, and there connecting with the tracks above described.

The said route, with turnouts, switches and crossovers, hereby authorized, is shown upon a map entitled:

"Map showing proposed extension of the Bush Terminal R. R. Company, in the Borough of Brooklyn, City of New York, to accompany application to the Board of Estimate and Apportionment, dated August 17, 1909," and signed by Irving T. Bush, President, and E. M. Ellsworth, Chief Engineer;

—a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description and the other provisions of this contract, may be permitted by resolution of the Board.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within one (1) month from the signing of this contract by the Mayor, and a copy of such consent shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall, within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law, to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company for the term beginning on the date upon which this contract is signed by the Mayor, and ending February 14, 1920, with the privilege of renewal of said contract for the further period of ten (10) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding ten (10) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other, fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term

of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall in any event be less than the sum required to be paid for the last year of this original contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of five hundred dollars ($500) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than one hundred dollars ($100), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of one hundred dollars ($100).

During the second term of five (5) years an annual sum which shall in no case be less than two hundred dollars ($200) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of two hundred dollars ($200).

(c) For the use of the property and structures under the jurisdiction of the Department of Docks and Ferries an annual sum which shall be determined by the Commissioner of Docks and Ferries, provided that such annual sum shall in no case be less than fifty cents (50c.) per linear foot of single track constructed upon such property.

(d) Before any rights hereby conferred are exercised by the Company, and within three (3) months from the date on which this contract is signed by the Mayor, the Company shall pay to the City the sum of fifty dollars ($50) for the use and occupation of streets and avenues without having a franchise therefor.

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company as shall bear the same proportion to its whole gross receipts as the length of the extension hereby granted shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

Annual charges designated above as (a) and (b) shall be paid into the Treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year. Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

Annual charges above designated as (c) shall be paid to the Commissioner of Docks and Ferries at such time or times as shall be designated by the said Commissioner.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City pursuant to the Railroad Law as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the same streets and avenues, hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company, to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within one (1) month from the date upon which the consents of the property owners are obtained, or from the date upon which the decision of the Appellate Division of the Supreme Court that such railway ought to be constructed is rendered in lieu of such consents, and shall complete the construction and place the same in full operation within six (6) months from the date of obtaining such consents or such decision, otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided, that such periods may be extended by the Board for a period or periods not exceeding in the aggregate six (6) months each; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board, either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Before the Company shall exercise any authority under this contract, it shall obtain from the Commissioner of Docks and Ferries a permit for the construction and operation of the portion of the railway upon the property under the jurisdiction of said Commissioner. Such permit shall contain a statement fixing the sums to be paid to the Commissioner for the right to construct and operate such railway upon the property under the jurisdiction of said Commissioner as hereinbefore provided, and may contain such other conditions as the said Commissioner shall deem necessary to protect the property under his care, and the Company shall abide by and perform all of the conditions so imposed.

Twelfth—Said railway may be operated by overhead electric power substantially similar to the overhead electric system now in use by street surface railways in the Borough of Brooklyn, or by any other motive power, except locomotive steam power or horse power, which may be approved by the Board, and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York.

Provided, however, that the Board, upon giving to the Company one (1) year's notice, may require the Company to operate its railway upon the whole or upon any portion of its route, by underground electric power substantially similar to the system now in use on the street surface railways in the Borough of Manhattan, or by any other practical motive power then in use which does not require the use of poles and overhead wires in the streets and avenues, and thereupon to discontinue the use of the overhead trolley system, and to remove its poles, wires and other structures used by it for that purpose from the streets and avenues of the City.

Thirteenth—Upon six (6) months' notice by the Board to the Company, all wires for the transmission of power, except trolley wires, for the operation of the railway, upon all or any portion of the route hereby authorized, shall be placed in conduits beneath or alongside of the railway. The Company shall provide in such conduits two (2) ducts not less than three (3) inches in diameter for the exclusive use of the City. Such ducts shall be used only by the Company for the operation of its railway and by the City, as above.

Fourteenth—The rate of fare for any passenger on said railway shall not exceed two (2) cents, and the Company shall not charge any passenger more than two (2) cents for one continuous ride from any point on the said railway or the railway authorized by an ordinance adopted by the Board of Aldermen on January 31, 1905, to any other point thereof.

Provided, however, that if by a traffic arrangement with any other transportation company, free transfers are given enabling a passenger paying one fare on the route hereby granted to reach the Borough of Manhattan or the Brooklyn Borough Hall, when traveling in a northerly direction, and Coney Island, when traveling in a southerly direction; then the rate of fare shall not exceed five (5) cents.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fifteenth—No cars shall be operated upon the railway hereby authorized other than passenger cars and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Sixteenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Eighteenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Nineteenth—Cars on the said railway shall run at intervals of not more than twenty (20) minutes between the hours of 7 o'clock a. m. and 6 o'clock p. m., and as much oftener during said hours and at such other times during the day and night as reasonable convenience of the public may require, or as may be directed by the Board.

Twentieth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curb lines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twenty-first—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-second—As long as said railway or any portion thereof remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City officer, at its own expense, and the provision as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-third—Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-fourth—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the street sand avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fifth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said street the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the consfruction of such change.

Twenty-sixth—The Company hereby agrees that if the City is, or shall become, entitled to acquire, and shall at any time during the term of this contract acquire or otherwise come into the possession of any of the property on which railway tracks shall be constructed on that portion of the route described herein as private property, no compensation shall be awarded for the right to have railway tracks thereon.

And in the event that the City shall have acquired such property, then the rights hereby granted in the streets and avenues shall be extended to cover such property and all the terms and conditions of this contract shall be applicable thereto.

Twenty-seventh—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued; for cash, for property;
2. The amount paid in as by last report;
3. The total amount of capital stock paid in;
4. The funded debt by last report;
5. The total amount of funded debt;
6. The floating debt as by last report;
7. The total amount of floating debt;
8. The total amount of funded and floating debt;
9. The average rate per annum of interest on funded debt;
10. Statement of dividends paid during the year;
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose;
13. Location, value and amount paid for real estate owned by the Company as by last report;
14. Location, value and amount paid for real estate now owned by the Company;
15. Number of passengers carried during the year;
16. Total receipts of Company for each class of business;
17. Amounts paid by the Company for damage to persons or property on account of construction and operation;
18. Total expenses for operation, including salaries;

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-eighth—The Company shall at all times keep accurate books of account of the gross earnings from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross earnings, to the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctnees of its report, and may examine its officers under oath.

Twenty-ninth—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board, acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Thirtieth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Thirty-first—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirty-second—The grant of this privilege is subject to whatever right, title or interest the owners of abutting property or others may have in and to the streets and avenues in which the Company is hereby authorized to operate.

Thirty-third—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of two thousand dollars ($2,000), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of all the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway, and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions or compliance with such orders, or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof, after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges shall collect the same, with interest, from the said fund after ten (10) days' notice in writing to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder relating to the headway, heating and lighting of cars, fenders, wheelguards and watering

of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheel guards, in case of a violation of the provisions relating to these matters, all of which sums may be deducted from said fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its president or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing appears, in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice in writing, pay to the City a sum sufficient to restore said security fund to the original amount of two thousand dollars ($2,000), and in default thereof this contract shall be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-fourth—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-fifth—The words "streets or avenues" and "streets and avenues" wherever used in this contract shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, public places, dock property or any other property to which the City has title" encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-sixth—If at any time the powers of the Board or any other of the authorities herein mentioned, or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Sec. 4. This grant is also upon the further and express condition that the provisions of the Railroad Law, pertinent hereto, shall be strictly complied with by the Company.

Sec. 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corprate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By ....., Mayor.

[CORPORATE SEAL.]
Attest:
....., City Clerk.

BUSH TERMINAL RAILROAD COMPANY,
By ....., President.

[SEAL.]
Attest:
....., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provision as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form or proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the franchise or right applied for by the Bush Terminal Railroad Company, and the said form of a proposed contract for the grant of such franchise or right, containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, December 23, 1909, in the CITY RECORD, and at least twice during the ten (10) days immeditely prior to Thursday, December 23, 1909, in two daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the Bush Terminal Railroad Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the Bush Terminal Railroad Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract will, at a meeting of said Board to be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, December 23, 1909, at 10.30 o'clock a. m., hold a public hearing thereon at which citizens shall be entitled to appear and be heard.

JOSEPH HAAG, Secretary.
Dated New York, November 19, 1909.
n30,d23

PUBLIC NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN that at the meeting of the Board of Estimate and Apportionment, held this day, the following proceedings were had:

Whereas, The Harrison Street Cold Storage Company has, under date of June 11, 1909, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate pipes for the purpose of supplying brine for refrigeration purposes, under and along the streets and avenues within the area bounded by North Moore street, Duane street, West Broadway and West street, in the Borough of Manhattan, City of New York; and

Whereas, Sections 72, 73 and 74 of the Greater New Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on September 17, 1909, fixing the date for public hearing thereon as October 15, 1909, at which citizens were entitled to appear and be heard, and publication was had for at least two (2) days in "The Globe" and "The New York Times," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing, and the public hearing was duly held on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the Harrison Street Cold Storage Company, and the adequacy of the compensation proposed to be paid therefor, now therefore it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the Harrison Street Cold Storage Company, containing the form of proposed contract for the grant of such franchise or right be hereby introduced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Harrison Street Cold Storage Company the franchise or right fully set out and described in the following form of proposed contract, for the grant thereof, embodying all the terms and conditions, including the provisions as to rates and charges, upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.

This contract, made this day of 19 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Harrison Street Cold Storage Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree, as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate certain conduits, with the necessary branches and extensions therefrom, leading directly into private property, for the sole purpose of supplying refrigeration to consumers, provided that no conduit be of a greater outside diameter than twelve (12) inches, including insulation or other covering; the same to be constructed and operated only beneath the surface of such of the streets, avenues and highways situate within the Borough of Manhattan, City of New York, as are included within the district bounded and described as follows: On the north by the centre line of Franklin street; on the west by the Centre line of Washington street; on the south by the centre line of Duane street, between Washington and Greenwich streets, prolonged in a straight line to the centre line of Hudson street; on the east by an irregular line formed as follows: By the centre line of Hudson street, the centre line of Thomas street, the line dividing Lots Nos. 40 and 44 from Lots Nos. 39, 36 and 49, all in Block 144 of Section 1, as shown on the tax maps of the City; the centre line of Worth street, the line dividing Lots Nos. 11, 15 and 17 from Lots Nos. 10, 21 and 20, all in Block 179 of Section 1 on said maps; the centre line of Leonard street and the centre line of Hudson street.

Provided, however, that upon written application to the Board by the Company, the Board may, by resolution, extend the lines of the district hereinbefore described to all or any part of a district bounded and described as follows: On the north by the centre line of North Moore street; on the west by the westerly line of West street; on the south by the centre line of Reade street, and on the east by the centre line of West Broadway.

Both of said districts being more particularly shown, the first, or smaller district, by full red lines, and the second, or larger district, by dashed red lines, on a map entitled:

"Map showing the districts to be covered by proposed conduits of the Harrison Street Cold Storage Company, to accompany petition dated June 11, 1909, to the Board of Estimate and Apportionment"; signed by Alexander Moir, Treasurer.

—a copy of which is hereto annexed and made a part of this contract.

Should the district be extended, as hereinbefore provided, then the terms and conditions of this contract shall apply to such extended district.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The said right to construct, maintain and operate said conduits shall be held and enjoyed by the Company for the term of fifteen (15) years from the date upon which this contract is signed by the Mayor, with the privilege of renewal of said contract for the further period of ten (10) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding ten (10) years shall be reasonable and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three distinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuation so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall in any event be less than the sum required to be paid for the last year of this original contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Second—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of one thousand dollars ($1,000) in cash within one (1) month after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five years, an annual sum which shall in no case be less than eight hundred dollars ($800), and which shall be equal to two (2) per cent. of its gross annual receipts, if such percentage shall exceed the sum of eight hundred dollars ($800).

During the second term of five years, an annual sum which shall in no case be less than twelve hundred dollars ($1,200), and which shall be equal to three (3) per cent. of its gross annual receipts, if such percentage shall exceed the sum of twelve hundred dollars ($1,200).

During the third term of five years, an annual sum which shall in no case be less than fifteen hundred dollars ($1,500), and which shall be equal to three (3) per cent. of its gross annual receipts, if such percentage shall exceed the sum of fifteen hundred dollars ($1,500).

The gross receipts mentioned above shall be the total receipts from all business of furnishing refrigeration to consumers.

(c) An annual payment of twenty-five (25) cents for each linear foot of conduit constructed within the limits of any street, avenue or highway, excepting, however, such conduits as are constructed within the vault space or vault spaces of any building or buildings used or occupied exclusively by the Company for the purposes of its business.

An annual payment of two dollars ($2) for each manhole constructed within the limits of any street, avenue or highway.

The annual charges shall commence from the day upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the Treasury of the City on February 1 of each year and shall be for the amount due to December 31 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and December 31 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before February 1 in each year for the year ending December 31 next preceding.

(d) Before any rights hereby conferred are exercised by the Company and within one (1) month from the date on which this contract is signed by the Mayor, the Company shall pay to the City the sum of fifteen hundred dollars ($1,500); said amount being due the City by reason of the unauthorized occupation of the streets by the Company or its predecessors.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Third—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other company providing for payments for refrigerating rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the streets and avenues mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the same streets and avenues, or within the districts hereinbefore described.

Fifth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Sixth—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the conduits and appurtenances of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract, as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its conduits and appurtenances constructed pursuant to this contract, and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Seventh—The grant of this privilege is subject to whatever title or interest the owners of abutting property or others may have in and to the streets and avenues in which the Company is hereby authorized to operate.

Eighth—All construction which shall be made under this grant shall be done in a manner solely upon the terms and conditions hereafter to be imposed by the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, or their respective successors in authority. The said Company shall submit a working plan of construction to the said President and to the said Commissioner, which shall include and show in detail the method of construction of said conduit line, connections, manholes and other appurtenances, and the mode of protection of all subsurface construction under the streets and avenues in which the Company is hereby authorized to operate.

Ninth—Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the conduits of the Company, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Tenth—It is agreed that the right hereby granted shall not be in preference or in hindrance to public work of the City, and should the said conduits in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the conduits and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Eleventh—The Company shall bear the expense of keeping in repair for one year after it has been replaced all pavement which may at any time be removed by said Company, either for the purpose of construction or for the repairing of the conduit line and its appurtenances.

Twelfth—The Company shall bear the expense of inspection which may be required by the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, and of all work of construction.

Thirteenth—The Company shall cause a test to be made of the pipes to be contained within the conduits hereby authorized whenever required by and under the supervision of the Commisioner of Water Supply, Gas and Electricity. The conditions of such test shall be as follows:

(a) If the test be made in the foundry where the pipes are manufactured, such pipes shall be subjected to a pressure of three hundred (300) pounds per square inch.

(b) If the test be made in the field, of pipes in use or ready for use, such pipes shall be subjected to a pressure of two hundred (200) pounds per square inch.

A certificate showing that such a test has been made without injury to the pipes shall be executed by an officer of the Company, and indorsed by the Commisioner of Water Supply, Gas and Electricity, and filed with the Board.

Fourteenth—The Company shall not charge consumers more than the following rates:

(a) Consumers making monthly contracts:

Four (4) cents per month per cubic foot for boxes of not over 500 cubic feet;

Two (2) cents per month per cubic foot for boxes of over 500 cubic feet but less than 1,500 cubic feet;

One (1) cent per month per cubic foot for boxes of 1,500 cubic feet and over.

(b) Consumers making yearly contracts:

Fifteen (15) cents per year per cubic foot of box.

These rates to apply to boxes located not above the first floor of any building.

During the term of this contract the Board shall have absolute power to regulate the maximum rates, provided that such rates shall be reasonable and fair.

Fifteenth—The Company, upon the application for refrigeration of any person, firm or corporation whose premises are located within the district first above described, or if such district be extended as hereinbefore provided, then within such extended district, shall extend its conduits to such premises and furnish to said applicant refrigeration at the rates herein prescribed or at such rates as may be hereafter fixed by the Board as herein provided. The Company shall not be required, however, to furnish refrigeration to applicants whose premises are located above the first floor of any building.

Sixteenth—A correct map shall be furnished to the Board by the Company on the first day of February, 1910, showing the exact location of all conduit lines and manholes constructed, with reference to the street lines, the curb lines and the street surface, together with a statement of the total length of such conduit. On the same date of each succeeding year, during the term of this contract, a supplementary map shall be furnished the Board showing all conduits laid during the preceding year.

Seventeenth—The conduit lines hereby authorized shall be used only by the Harrison Street Cold Storage Company, and for no other purpose than supplying refrigeration.

Eighteenth—The Company shall submit a report to the Board not later than February 1 in each year, for the year ending December 31 next preceding, and at any other time upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property;
2. The amount paid in as by last report;
3. The total amount of capital stock paid in;
4. The funded debt by last report;
5. The total amount of funded debt;
6. The floating debt as by last report.
7. The total amount of floating debt;
8. The total amount of funded and floating debt;
9. The average rate per annum of interest on funded debt;
10. Statement of dividends paid during the year;
11. Number of feet of conduit now laid;
12. The total amount expended for same;
13. Amount, kind and capacity of machinery now in use and required for operation;
14. The total amount expended for same;
15. Quantity of refrigeration produced during the year and the average price received for same;
16. Quantity used in Company's own warehouses;
17. Quantity furnished to outside consumers;
18. Number and location of warehouses occupied by the Company, exclusively or in part, and the extent of such occupation by the Company;
19. Number of outside consumers supplied;
20. Amounts paid by Company for damages to persons or property on account of construction and operation;
21. Total expenses of operation, including salaries;

—and such other information in regard to the business of the Company as may be required by the Board.

Nineteenth—The Company shall at all times keep accurate books of account of the gross earn-

ings from the privileges granted under this contract, and on or before February 1 in each year shall make a verified report to the Comptroller of The City of New York of the business done by the Company for the year ending December 31 next preceding as he may prescribe. Such report shall contain the number of feet of conduit laid and the number of manholes constructed during the year, and also a statement of the gross receipts from all business of furnishing refrigeration to consumers, together with such other information and in such detail as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twentieth—In case of any violation or breach or failure to comply with any of the provisions herein contained or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel on notice of ten days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the conduits constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-first—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its conduits and appurtenances as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of fifty dollars ($50) as fixed or liquidated damages, or the Board, in case such conduits or appurtenances which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-second—The Company shall assume all liability to persons or property by reason of the construction or operation of the conduits authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Twenty-third—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of two thousand five hundred dollars ($2,500), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract and compliance with all orders of the Board, acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at reasonable rates, the repairs of the street pavement and the maintenance of the property in good condition throughout the full term of the grant, and in case of default in the performance by the Company of such terms and conditions or compliance with such orders, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or, after default in the payment of the annual charges, shall collect the same, with interest, from the said fund, after ten (10) days' notice in writing to the Company; or in case of failure to comply with the said terms and conditions of this contract, or its neglect or refusal to comply with any notice or direction of the Board, or other municipal officials, given or made pursuant to the terms of the contract, or under the authority of any laws or ordinances now or hereafter in force, in such case and in any of these events, the Company shall pay to the City a penalty of one hundred dollars ($100) for each violation.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its president or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing, appears, in the judgment of the Board, to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice in writing, pay to the City a sum sufficient to restore said security fund to the original amount of two thousand five hundred dollars ($2,500), and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or rights under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Twenty-fourth—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Twenty fifth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By....., Mayor.
[CORPORATE SEAL.]
Attest:
....., City Clerk.
HARRISON STREET COLD STORAGE COMPANY,
By....., President.
[SEAL.]
Attest:
....., Secretary.
(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions for the grant of a franchise or right applied for by the Harrison Street Cold Storage Company and the said form of a proposed contract for the grant of such franchise or right containing said results of such inquiry after the same shall be entered in the minutes of this Board shall be published for at least twenty (20) days immediately prior to Thursday, December 23, 1909, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, December 23, 1909, in two daily newspapers to be designated by the Mayor therefor, and published in The City of New York, at the expense of the Harrison Street Cold Storage Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of a franchise or right applied for by the Harrison Street Cold Storage Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, December 23, 1909, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

JOSEPH HAAG, Secretary.
Dated New York, November 19, 1909.
n30,d23

PUBLIC NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN that at the meetings of the Board of Estimate and Apportionment held November 12 and 19, 1909, the following proceedings were had:

Whereas, The Third Avenue Bridge Company has under date of September 10, 1909, made application to this Board for a grant of the right, privilege and franchise to construct, maintain and operate a street surface railway from Third avenue, in the Borough of Manhattan, to the Manhattan end of the Queensboro Bridge, and thence over said bridge and the approaches thereto to Jackson avenue, in the Borough of Queens; and

Whereas, Section 92 of the Railroad Law, and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the Third Avenue Bridge Company and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the Third Avenue Bridge Company containing the form of proposed contract for the grant of such franchise or right be hereby introduced and entered in the minutes of this Board as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Third Avenue Bridge Company a franchise or right fully set out and described in the following form of proposed contracts for the grant thereof, embodying all the terms and conditions, including the provisions as to rates, fares and charges upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.

This contract, made this day of 190 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Third Avenue Bridge Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the following rights and privileges:

First—To construct, maintain and operate a double-track street surface railway with the necessary wires and equipment for the purpose of conveying persons and property in the Borough of Manhattan, in The City of New York, upon the following route:

Beginning at the intersection of Third avenue and East Fifty-ninth street; thence in and upon East Fifty-ninth street with single track to the existing tracks constructed upon bridge property for the use of street surface railways upon the westerly approach of the Queensboro Bridge; also with single track connecting with such tracks on the bridge approach in and upon East Sixtieth street to its intersection with Third avenue, and thence in and upon Third avenue with double tracks to the point or place of beginning.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said route, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description and the other provisions of this contract may be permitted by resolution of the Board.

Second—To operate the cars of the Company upon two (2) tracks when constructed upon the Queensboro Bridge and approaches thereto, such tracks to be assigned to the Company by the Commissioner of Bridges; beginning at the westerly end of the Queensboro Bridge at the terminus of the tracks above described; thence upon and along the westerly approach of the Queensboro Bridge, in the Borough of Manhattan, upon and along the Queensboro Bridge and upon and along the easterly approach and across the intersecting streets and avenues to the terminal at or near Jackson avenue, in the Borough of Queens.

The said route is to be operated by the Company as a continuous route in connection with the route hereinbefore described.

Sec. 2. The grant of the right or privilege to construct, maintain and operate the said railway from the intersection of Third avenue with East Fifty-ninth and Sixtieth streets, thence in and upon East Fifty-ninth and Sixtieth streets to the existing tracks constructed on the Queensboro Bridge, is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within six (6) months from the signing of this contract by the Mayor, and a copy of such consent shall be filed with the Board within such time, or, in the event that such consents cannot be obtained within such time, the Company shall, within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right and privilege shall be held and enjoyed by the Company for a term of twenty-five (25) years from the date upon which this contract is signed by the Mayor. Whenever in the opinion of the Board such tracks or any part thereof will interfere with the construction or operation of a rapid transit railroad over the said Queensboro Bridge, said Board at its option upon six (6) months' notice to the Company may rescind and revoke this contract and grant, or may designate other tracks to be used by the Company, and in the event of such redesignation the Company agrees to make the necessary changes at its own expense.

Third—Upon the termination of this contract or its revocation by the Board, as herein provided, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipment of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any Company or individual.

If, however, at the termination of this grant for any reason as above, the Board shall so order, by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract, and the said streets and avenues shall be restored to their original condition, at the sole cost and expense of the Company.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions over the same streets and avenues hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment, or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, theretofore incurred, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice, and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if in the opinion of the Company the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board, and the Board may fix a percentage upon the cost to be paid to the Company at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of East Fifty-ninth and Sixtieth streets which shall be covered by this grant.

Fifth—Said railway shall be operated by underground electric power substantially similar to the system of underground electric power now used by the street surface railways in the Borough of Manhattan, provided that any other power may be used except locomotive steam power, horse power or overhead electric power, which may be lawfully used, approved by the Board and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York.

Sixth—No wires for the transmission of power shall be permitted unless they be placed in conduits underneath or along the side of the railway. When such conduits are constructed, the Company shall provide two (2) conduits not less than three (3) inches in diameter each for the exclusive use of the City. The Company hereby agrees that such conduits shall be used only by the Company and the City, as above.

Seventh—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permit so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction, and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eighth—The Company shall commence construction of the railway herein authorized within three (3) months from the date upon which the consents of the property owners are obtained, or from the date upon which the decision of the Appellate Division of the Supreme Court that such railway ought to be constructed is rendered in lieu of such consents, and shall complete the construction and place the same in full operation within six (6) months from the date of obtaining such consents or such decision, otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided, that such periods may be extended by the Board for a period or periods not exceeding in the aggregate six (6) months each; and, provided further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any Court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the Court proceedings shall be diligently prosecuted by the Company; and provided further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such Court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless, upon the request of the Board, the Company shall, in writing, consent that the Board, either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Tenth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed, and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said street the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Eleventh—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City officer, at its own expense, and the provision as to repairs herein contained shall apply to such renewed or altered pavement.

Twelfth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curb lines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Thirteenth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Fourteenth—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Sec. 3. The grant of the right or privilege to operate cars upon two (2) tracks on the Queensboro Bridge and the approaches thereto, upon the route hereinbefore described, and to use other equipment owned by the City upon said bridge, is subject to the following conditions, which shall be complied with by the Company:

First—The said right and privilege shall be held and enjoyed by the Company for a term of twenty-five (25) years from the date upon which this contract is signed by the Mayor. Whenever in the opinion of the Board the use by the Company of the tracks assigned to the Company by the Commissioner of Bridges, or any part thereof, will interfere with the operation of a rapid transit railroad over the said Queensboro Bridge, said Board, at its option, upon six (6) months' notice to the Company, may rescind and revoke this contract, and grant, or may designate other tracks to be used by the Company.

Second—The Company shall use only such tracks as shall be assigned to the Company by the Commissioner of Bridges, and nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, or to affect the right of the Commissioner of Bridges to assign the same or other tracks to such individual or other corporation.

Such tracks and all electrical equipment necessary for the operation of cars thereon shall be installed at the expense of the City, and shall remain the property of the City, but the Company shall keep and maintain such tracks and electrical equipment in good order and repair, and in such manner as shall be approved and directed by the Commissioner of Bridges, and shall furnish all motive power required by the Commissioner of Bridges for the operation of its cars. If deemed necessary by the Commissioner of Bridges, the Company shall install and operate a system of signals to insure the safe and efficient operation of cars; such system to be approved by the Commissioner of Bridges. In the event of any neces-

sity for changing the layout of tracks, curves, switches, sidings or platforms on the bridge in order to facilitate operation of cars by the Company, said Company must do all the work and furnish all the labor and tools necessary for effecting such changes, which shall all be made under the control and direction of the Commissioner of Bridges, and no such changes or construction connected therewith, or relating thereto, shall be made unless the plan or plans for the same have been first submitted to the Commissioner of Bridges and approved by him.

If, however, the tracks and appliances herein mentioned are used by any other individual or corporation, then the Company shall bear only such proportion of the cost imposed by the terms and conditions of this paragraph as the use of such track and appliances by the Company bears to the entire use of such tracks and appliances.

Third—Before beginning the operation of the cars, the Company shall file with the Commissioner of Bridges a statement for his approval and assent as to the type of car which it proposes to operate, and a sketch showing clearance dimensions, weight on axles and wheel spacing, or such other information as may be required by said Commissioner. All cars operated over the bridge by the Company, and all equipment and appliances relating to such operation shall be subject at all times to the inspection of the Commissioner of Bridges or his authorized representatives, who shall have power to forbid the entrance to the bridge of cars which may, for any reason, be unsatisfactory, and who shall have power to direct the removal of any old or inadequate appliance and the substitution therefor of appliances of approved character.

Said Commissioner may adopt rules and regulations in regard to the number of cars to be operated over the bridge, the rate of speed of said cars, the movement and headway thereof, the type and weight of cars to be used and the condition thereof; the switching of cars and the use of platforms, and the control of the electrical current used by the Company, and the said Commissioner may alter and amend any such rules and regulations so as to secure the safety and comfort of persons using the bridge, and preserve the purposes for which the bridge was constructed, and, upon serving notice upon the Company that such rules and regulations have been made, amended or altered, the Company shall comply with all the requirements thereof.

Fourth—The Company shall not operate cars upon the Queensboro Bridge until the Company shall have put in operation the railway upon the route hereinbefore described upon East Fifty-ninth and Sixtieth streets to the entrance to the Queensboro Bridge.

Fifth—Nothing in this contract shall be deemed to affect, in any way, the right of the Commissioner of Bridges to make any alterations or changes in the construction, operation or management of the bridge, or to affect, in any way, the control of such Commissioner over such bridge, as provided by the Charter of the City.

Sec. 4—The grant of the said rights and privileges to construct, maintain and operate a street surface railway from the intersection of Third avenue and East Fifty-ninth and Sixtieth streets, to the westerly entrance to the Queensboro Bridge, upon the route hereinbefore described, and to operate cars upon the Queensboro Bridge and its approaches thereto, are both subject to the following conditions, which shall be complied with by the Company:

First—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of one hundred dollars ($100) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years, an annual sum which shall in no case be less than fourteen hundred dollars ($1,400), and which shall be equal to three (3) per cent. of its gross annual receipts, if such percentage shall exceed the sum of fourteen hundred dollars ($1,400).

During the second term of five (5) years, an annual sum which shall in no case be less than twenty-six hundred dollars ($2,600), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of twenty-six hundred dollars ($2,600).

During the third term of five (5) years, or during such portion of said term as this contract shall be in force, an annual sum which shall in no case be less than twenty-eight hundred and fifty dollars ($2,850), and shall be equal to five (5) per cent. of its gross annual receipts if such percentage shall exceed the sum of twenty-eight hundred and fifty dollars ($2,850).

During the fourth term of five (5) years, or during such portion of said term as this contract shall be in force, an annual sum which shall in no case be less than thirty-one hundred dollars ($3,100), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of thirty-one hundred dollars ($3,100).

During the remaining term of five (5) years, or during such portion of said term as this contract shall be in force, an annual sum which shall in no case be less than thirty-five hundred dollars ($3,500), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of thirty-five hundred dollars ($3,500).

The gross receipts mentioned above shall be the gross earnings of the Company from all sources within the limits of the City.

The portion of such gross receipts which is derived from passenger cars shall be equal to all cash received for fares upon the railway which the Company is hereby authorized to operate, and the Company shall keep separate and accurate accounts of such cash fares received.

The payment of such minimum sums shall begin from the day on which this contract is signed by the Mayor.

(c) For the use of the tracks owned by the City upon the Queensboro Bridge the sum of five cents for each round trip, or the sum of two and one-half cents for each single trip of each and every car operated upon the bridge.

The number of such cars shall be certified by the Commissioner of Bridges to the Comptroller once each month in such form as shall be designated by the Comptroller.

(d) The Company shall pay to the City four (4) per cent. per annum upon the cost of all tracks owned by the City and used by the Company upon the bridge approach in the Borough of Queens between the entrance to the bridge and Jackson avenue; provided, however, that if such tracks are used by any other company or companies, then the Company shall only pay such portion of four (4) per cent. per annum upon the cost thereof as shall be proportionate to the use of such tracks by the Company.

The Commissioner of Bridges shall determine such amounts due the City and certify the same to the Comptroller.

All annual charges, as above, shall be paid into the treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding; provided, that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount, as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City, pursuant to the Railroad Law as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Second—The annual charges or payments shall continue throughout the whole term of this contract, notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted, or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract, and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Third—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Fourth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the directions of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Fifth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents, and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on said railway, or a line or branch operated in connection therewith, to any point thereof, or of any connecting line or branch thereof within the limits of the City.

The Company shall arrange that transfers be exchanged with the company or companies operating the lines of the Third Avenue Railroad Company, the Forty-second Street, Manhattanville and St. Nicholas Avenue Railway Company, Kingsbridge Railway Company and the Dry Dock, East Broadway and Battery Railroad Company, whereby passengers shall be given a continuous ride over all of said lines, including the lines of the Third Avenue Bridge Company herein provided for, for a single fare of five cents. It is expressly agreed, however, that the foregoing shall not include a transfer and ride over the Williamsburg Bridge for such single fare.

In the event of the failure at any time of the Company or any of the other companies whose lines are covered by the said provisions as to transfers or of the successors or assigns of such company or companies, for any reason whatsoever to exchange transfers as hereinabove provided, this franchise shall *ipso facto* become void and forfeited.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Sixth—No cars shall be operated upon the railway hereby authorized other than passenger cars, cars for the transportation of express matter and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Seventh—The rate for the carrying of such property over the said railway upon the cars of the Company shall in all cases be reasonable in amount, subject to the control of the Board, and may be fixed by the Board after notice to the Company and a hearing had thereon, and when so fixed such rates shall be binding upon the Company, and no greater sums shall be charged for such services than provided for by it.

Eighth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Ninth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Tenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Eleventh—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Twelfth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries—and such other information in regard to the business of the Company as may be required by the Board.

Thirteenth—The Company shall at all times keep accurate books of account of the gross earnings from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding in such form as he may prescribe. Such report shall contain a statement of such gross earnings, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Fourteenth—In case of any violation or breach or failure to comply with any of the provisions herein contained, this contract may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Fifteenth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Sixteenth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever, to either persons or property, on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Seventeenth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of one hundred dollars ($100), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of all the terms and conditions of this contract, especially those which relate to the payment of the annual charges for the privilege granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice and the quality of construction of the railway, and in case of default in the performance by the Company of such terms and conditions the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or, after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice in writing to the Company; or in case of failure to keep the said terms and conditions of this contract relating to the headway, heating and lighting of cars, fenders, wheelguards, and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheelguards, in case of the violation of the provisions relating to those matters.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company directing its president, or other officer, to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing, appears, in the judgment of the Board, to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security bond deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice in writing, pay to the City a sum sufficient to restore said security fund to the original amount of one hundred dollars ($100), and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Eighteenth—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided, shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Nineteenth—The words "streets or avenues" and "streets and avenues," wherever used in this contract, shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title," encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Twentieth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned shall be transferred by law to any other Board, authority, officer or officers, then and in such case such other Board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 5. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Sec. 6. This grant is also upon the further and express condition that the provisions of the Railroad Law pertinent hereto shall be strictly complied with by the Company.

Sec. 7. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed the day and year first above written.

THE CITY OF NEW YORK,
By....., Mayor.

[CORPORATE SEAL.]
Attest:
....., City Clerk.

THIRD AVENUE BRIDGE COMPANY,
By....., President.

[SEAL.]
Attest:
....., Secretary.

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted, and the adequacy of the compensation proposed to be paid therefor and of the terms and conditions, including the provision as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of the franchise or right applied for by the Third Avenue Bridge Company, and the said form of proposed contract for the grant of such franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of the Board, shall be published for at least twenty days immediately prior to Thursday, December 23, 1909, in the CITY RECORD, and for at least fourteen days immediately prior to Thursday, December 23, 1909, in two daily newspapers, to be designated by the Mayor therefor and published in The City of New York, at the expense of the Third Avenue Bridge Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the Third Avenue Bridge Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, December 23, 1909, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

JOSEPH HAAG, Secretary.

Dated New York, November 19, 1909.

n30,d23

PUBLIC NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN that at the meeting of the Board of Estimate and Apportionment held this day, the following proceedings were had:

Whereas, The City of New York, by a contract signed by the Mayor on May 20, 1909, granted to the South Shore Traction Company the right to construct, maintain and operate a street surface railroad upon certain streets, avenues, highways and public places set forth in said contract, which contract, including all the terms and conditions thereof, was duly accepted by said Company; and

Whereas, The South Shore Traction Company has, under date of September 23, 1909, made application to this Board for certain modifications and alterations in the terms and conditions of the aforesaid franchise, as fully set forth in said petition; and

Whereas, Section 92 of the Railroad Law, and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on November 12, 1909, fixing the date for public hearing thereon as December 10, 1909, at which citizens are entitled to appear and be heard, and publication is to be had for at least fourteen (14) days in the New York "American" and the "Morning Telegraph," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing, and the public hearing is to be duly held on such day; and

Whereas, The Board has made inquiry as to the proposed modifications and amendments of said contract, and has adopted a resolution that certain of said modifications and amendments are desirable and in the public interest, and that the causes stated by said South Shore Traction Company why certain of the conditions contained in said contract should be changed are just and reasonable; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for as amended by the contract, and the adequacy of the compensation proposed to be paid therefor; now therefore it is

Resolved, That the following form of the resolution for the consent or right applied for by the South Shore Traction Company, containing the form of proposed contract for the grant of

such right, be hereby introduced, and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby consents to certain changes, alterations and amendments in the terms and conditions of the contract between The City of New York and the South Shore Traction Company, signed by the Mayor on May 20, 1909, such modified terms and conditions being fully set out and described in the following form of proposed contract for the grant thereof, embodying such terms and conditions as modify or alter said contract, which said contract otherwise remains unchanged as to all the other terms and conditions expressed therein, including the provisions as to rates, fares and charges upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

PROPOSED FORM OF CONTRACT.

This contract, made the day of , 1909, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the South Shore Traction Company, a domestic railroad corporation (hereinafter called the Traction Company), party of the second part, witnesseth:

Whereas, The City of New York, by contract signed by the Mayor on May 20, 1909, granted to the South Shore Traction Company the right to build, construct, maintain and operate a certain street surface railroad from the Manhattan terminal of the Queensboro Bridge, across said bridge; thence over streets, avenues and highways in said contract named, to the point where Central avenue crosses the city line, upon certain conditions therein fully set forth; and

Whereas, The said South Shore Traction Company has applied to the Board, as local authority of The City of New York, by verified petition dated September 23, 1909, for the consent of such local authority for the modification of the said contract, in accordance with such petition, in the following manner, to wit:

(a) In section 2, paragraph third, certain words to be added after the word "Mayor," in the sixth line of said paragraph, making the first part of this clause read as follows (new words are in italics):

"Third—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway, shall be obtained by the Company within six (6) months from the signing of this contract by the Mayor, *and the approval of the construction of this line by the Public Service Commission, as required by the* Public Service Commission Law," etc.

(b) Section 4, subdivision (a) of the First paragraph to be entirely stricken out, this clause reading as follows:

"(a) The sum of twenty thousand dollars ($20,000) in cash within three (3) months after the date on which this contract is signed by the Mayor."

(c) Section 4, first paragraph, subdivision (e), latter part of this subdivision to be changed to read as follows:

"Such payments shall begin on the day when the *operation of the railroad on* the tracks on said viaduct shall begin."

(d) Section 4, first paragraph, the clause now reading:

"The annual charges shall commence from the date upon which this contract is signed by the Mayor."

—to be changed to read:

"The annual charges shall commence from the date upon which the *railway of the Company is first put in operation between Jamaica and the Queensboro Bridge, except as herein otherwise provided.*"

(e) The last suggested change makes it necessary to strike out the last six lines of the clause directly following this one, namely, that portion of the clause reading as follows:

"Provided that the first annual payment shall be only for that portion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year."

(f) Section 4, first paragraph, second clause of subdivision (b) to be changed to read as follows:

"During *the remainder of the term hereby granted* an annual sum, which shall in no case be less than seven thousand dollars ($7,000) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of seven thousand dollars";

—and that the third, fourth and fifth clauses of said subdivision be stricken out.

(g) Section 4, first paragraph, last clause, to be amended to read as follows:

"*No* payments to be made by the terms of this contract to The City of New York by the Company *except those mentioned and described in section 4, paragraph first, subdivision (b)*, shall be considered in any manner in the nature of a tax, but such payments shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid by any ordinance of the City or by any law of the State of New York."

(h) Section 4, paragraph seventeen, the first part of said paragraph to be changed to read as follows:

"Seventeenth—The Company within three months after the signing of this contract by the Mayor, *and within three months after the issuance to it of a certificate by the Public Service Commission necessary to enable it to begin the construction of its line*, and before anything is done in the exercise of the rights hereby conferred," etc.

Two additional clauses to be inserted as follows:

(i) "Any sum or sums of money paid by the Company to The City of New York, or any officer thereof, or any cash or securities dpposited with said City, or any officer thereof, in compliance with the terms of the contract existing between The City of New York and the Company, dated the 20th day of May, 1909, and not called for or required by the terms of said contract as the same is hereby amended, shall, upon the request of the Company, duly made in writing, be returned to the Company by The City of New York or the proper officer or officers thereof."

(j) "Any and all terms and conditions of this contract may, with the consent of the Company, be amended, changed or modified from time to time as the same shall be deemed necessary or advisable by the Board of Estimate and Apportionment, or the successor or successors of said Board in the exercise of the powers now vested in said Board"; and

Whereas, The Board has made inquiry as to the proposed modifications and amendments of said contract, and has adopted a resolution that certain of the said modifications and amendments are desirable and in the public interest, and that the causes stated by the said South Shore Traction Company why certain of the conditions contained in said contract should be changed are just and reasonable; now, therefore, in consideration of the premises and of the mutual covenants herein contained, the parties do hereby covenant and agree as follows:

Section 1. The City hereby consents to certain changes, alterations and amendments in and to the contract between The City of New York and the South Shore Traction Company, signed by the Mayor on May 20, 1909, which changes are subject to the following conditions:

First—All the terms and conditions contained in the said contract signed by the Mayor on May 20, 1909, shall remain unchanged, except as follows:

Section 2. Paragraph Third—Amend the paragraph to read as follows:

"Third—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway, shall be obtained by the Company within twelve (12) months from the signing of this contract by the Mayor, and a copy of such consent shall be filed with the Board within such time, but the Board may, for cause shown, grant an additional period not exceeding three (3) months within which to obtain and file such consents of property owners, or in the event that such consents cannot be obtained within such time, or such extension of such time as shall be granted by the Board, the Company shall, within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine."

Section 4, first paragraph, subdivision (a), to be amended to read as follows:

"The sum of one thousand dollars ($1,000) in cash within three (3) months after the date on which this contract is signed by the Mayor.

"In the event that the Company has paid or may hereafter pay to the City an initial cash payment in excess of the stated amount of one thousand dollars ($1,000), such excess payment shall, upon the request of the Company, duly made in writing, be returned to the Company by The City of New York or the proper officer or officers thereof."

Section 4, First Paragraph, Subdivision (b)—Strike out the second, third, fourth and fifth clauses of said subdivision and insert in place of same the following second clause:

"During the remainder of the term hereby granted, an annual sum, which shall in no case be less than seven thousand dollars ($7,000), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of seven thousand dollars."

Section 4, First Paragraph, Subdivision (c)—Strike out the last sentence of this subdivision, reading, "Such payments shall begin on the day when the construction of the tracks on said viaduct shall begin," and insert in place of same the sentence:

"Such payments shall begin on the day when the operation of the railroad on the tracks on said viaduct shall begin."

Section 4, First Paragraph—Strike out the clause now reading, "The annual charges shall commence from the date upon which this contract is signed by the Mayor," and insert in place of same the following clause:

"The annual charges shall commence from the date upon which the railway of the company is first put in operation, other than the operation of the railway known as the local Queensborough Bridge service."

Section 4, First Paragraph—Amend the clause reading, "All annual charges as above shall be paid into the Treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding; provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following, shall bear to the whole of one year," by striking out all of the second sentence of the clause beginning with the word "provided" and ending with the word "year," and inserting a new second sentence, so that the clause so amended will read as follows:

"All annual charges as above shall be paid into the treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which the operation as above is commenced and September 30 following shall bear to the whole of one year."

Section 4, First Paragraph, Last Clause—Strike out this clause, beginning with the words "Any and all payments," and ending with the words "State of New York," and substitute in place of the same the following clause:

"No payments to be made by the terms of this contract to The City of New York by the Company except those mentioned and described in section 4, paragraph first, subdivision (b), shall be considered in any manner in the nature of a tax, but such payments shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid by any ordinance of The City or by any law of the State of New York."

Sec. 2. The South Shore Traction Company promises, covenants and agrees on its part and behalf to conform to and abide by all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By....., Mayor.

[CORPORATE SEAL.]
Attest:
....., City Clerk.

SOUTH SHORE TRACTION COMPANY,
By....., President.

[SEAL.]
Attest:
....., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the proposed right and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates, fares and charges, are as hereinbefore specified and fully set forth in said contract signed by the Mayor on May 20, 1909, as amended by the foregoing form of proposed contract for the consent to such modifications and alterations, mentioned therein.

Resolved, That these preambles and resolutions, including said resolution for the consent of The City of New York to certain of the modifications and alterations as applied for by the South Shore Traction Company, and said form of proposed contract for the grant of said franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to December 23, 1909, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to December 23, 1909, in two daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the South Shore Traction Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the consent of The City of New York to certain modifications and alterations in the contract entered into by The City of New York and the South Shore Traction Company, signed by the Mayor on May 20, 1909, such modifications and alterations being set forth and described in the foregoing form of proposed contract for the grant of such right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, in the City Hall, Borough of Manhattan, City of New York, on December 23, 1909, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

JOSEPH HAAG, Secretary.

Dated New York, November 19, 1909.

n30,d23

PUBLIC NOTICE IS HEREBY GIVEN that at a meeting of the Board of Estimate and Apportionment, held September 24, 1909, the following petition was received:

To the Honorable the Board of Estimate and Apportionment of The City of New York:

The petition of the South Shore Traction Company respectfully shows:

First—That your petitioner is a street surface railroad corporation duly organized and existing under the laws of the State of New York, and was authorized and empowered, under the terms of a certain contract, signed by the Hon. George B. McClellan, Mayor of The City of New York, on the 20th day of May, 1909, pursuant to a duly adopted resolution of your Honorable Board, to construct, maintain and operate a street surface railroad from the Manhattan terminal of the Queensboro Bridge, across said bridge, thence over certain streets, avenues and highways to the point where Central avenue crosses the City line.

Second—That after the execution and delivery of said contract, your petitioner submitted said contract to the Public Service Commission of the State of New York, First District, for the purpose of securing from said body the approval as required by the provisions of the Public Service Commissions Law; that thereafter said Public Service Commission denied the petitioner's application, and thereafter proceedings were taken by certiorari for the purpose of testing the legality of such action of the Public Service Commission, both on its own behalf and on behalf of the City in general, and in connection with said proceedings long and expensive litigation has ensued, which has had the effect of delaying and which still delays and prevents the exercise by your petitioner of any of the rights intended to be given it under the terms of said contract, and which has also put your petitioner to large expense for legal services.

Third—At the time of the execution and delivery of said contract it was the evident belief of your Honorable Board and of your petitioner that this contract would be approved by the Public Service Commission without delay, and no provision was made in said contract for the requisite extensions of time rendered necessary in connection with the performance of certain acts called for within limited periods of time by said contract. As a result of the delay rendered unavoidable by the action of the Public Service Commission, and the consequent litigation, it has become necessary that certain changes in the provisions of the franchise heretofore granted should be made to enable your petitioner to carry out in good faith the intention of the parties to said original contract as the same is shown in said contract. Your petitioner therefore makes application on this ground for certain of the changes hereinafter prayed for.

Fourth—Since the execution of the contract hereinbefore referred to on the 20th day of May, 1909, your Honorable Board did, while considering the terms of a proposed franchise to be granted to the New York and Queens County Railway Company, pass certain resolutions tentatively approving the grant of a franchise to this Company on terms less onerous in certain respects than those heretofore granted to your petitioner. It is the belief of your petitioner, based on statements previously made by members of your Board, that it was the intention of the members of your Honorable Board to treat applicant railroad companies impartially and to grant equally favorable terms to all railroad companies operating under the same general conditions. Your petitioner, therefore, in this petition makes application to your Honorable Body for certain changes in the terms of the franchise heretofore granted to your petitioner, in order that said contract as heretofore granted may be harmonized with the terms of the proposed grant of franchise rights to the New York and Queens County Railway Company, as the same are embodied in the terms of the resolution passed by your Honorable Board on the 17th day of September last.

Fifth—The changes and alterations in said existing contract, dated the 20th day of May, 1909, prayed for by your petitioner, are as follows:

(a) In section 2, paragraph third, certain words to be added after the word "Mayor" in the sixth line of said paragraph, making the first part of this clause read as follows (new words are in italics):

"Third—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway, shall be obtained by the Company within six (6) months from the signing of this contract by the Mayor *and the approval of the construction of this line by the Public Service Commission as required by the Public Service Commissions Law*," etc.

(b) Section 4, subdivision (a) of the first paragraph to be entirely stricken out, this clause reading as follows:

"(a) The sum of twenty thousand dollars ($20,000) in cash within three (3) months after the date on which this contract is signed by the Mayor."

(c) Section 4, first paragraph, subdivision (e), latter part of this subdivision to be changed to read as follows:

"Such payments shall begin on the day when the *operation of the railroad on* the tracks on said viaduct shall begin."

(d) Section 4, first paragraph, the clause now reading:

"The annual charges shall commence from the date upon which this contract is signed by the Mayor."

to be changed to read:

"The annual charges shall commence from the date upon which the *railway of the Company is first put in operation between Jamaica and the Queensboro Bridge, except as herein otherwise provided.*"

(e) The last suggested change makes it necessary to strike out the last six lines of the clause directly following this one, namely, that portion of the clause reading as follows:

"Provided that the first annual payment shall be only for that portion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year."

(f) Section 4, first paragraph, second clause of subdivision (b) to be changed to read as follows:

"During *the remainder of the term hereby granted* an annual sum, which shall in no case be less than seven thousand dollars ($7,000) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of seven thousand dollars";

—and that the third, fourth and fifth clauses of said subdivision be stricken out.

(g) Section 4, first paragraph; last clause to be amended to read as follows:

"*No* payments to be made by the terms of this contract to The City of New York by the Company, *except those mentioned and described in section 4, paragraph first, subdivision (b)*, shall be considered in any manner in the nature of a tax, but such payments shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid by any ordinance of the City or by any law of the State of New York."

(h) Section 4, paragraph seventeenth; the first part of said paragraph to be changed to read as follows:

"Seventeenth—The Company, within three months after the signing of this contract by the Mayor *and within three months after the issuance to it of a certificate by the Public Service Commission necessary to enable it to begin the construction of its line*, and before anything is done in the exercise of the rights hereby conferred," etc.

Two additional clauses to be inserted, as follows:

(i) "Any sum or sums of money paid by the Company to The City of New York, or any officer thereof, or any cash or securities deposited with said City, or any officer thereof, in compliance with the terms of the contract existing between The City of New York and the Company, dated the 20th day of May, 1909, and not called for or required by the terms of said contract as the same is hereby amended, shall, upon the request of the Company, duly made in writing, be returned to the Company by The City of New York, or the proper officer or officers thereof."

(j) "Any and all terms and conditions of this contract may, with the consent of the Company, be amended, changed or modified from time to time, as the same shall be deemed necessary or advisable by the Board of Estimate and Apportionment, or the successor or successors of said Board in the exercise of the powers now vested in said Board."

Wherefore your petitioner prays public notice hereof, and of the time and place when and where this application will be first considered, be given, as required by law, and that the desired consent be granted, in accordance with the provisions of the Greater New York Charter.

Dated September 23, 1909.

SOUTH SHORE TRACTION COMPANY,
By JAMES T. WOOD, President.

[SEAL.]
Attest:
ARTHUR CARTER HUME, Secretary.

State of New York, County of New York, ss.:

James T. Wood, being duly sworn, deposes and says: That he is the president of the South Shore Traction Company, the petitioner named in the foregoing petition; that he has read the foregoing petition and knows the contents thereof; that the same is true of his own knowledge, except as to the matters therein stated to be alleged upon information and belief, and that as to those matters he believes it to be true.

JAMES T. WOOD.

Sworn to before me this 23d day of September, 1909.

M. L. DORLAND,
Notary Public, No. 121, New York County.

—and at the meeting of November 12, 1909, the following resolutions were adopted:

Whereas, The foregoing petition from the South Shore Traction Company, dated September 23, 1909, was presented to the Board of Estimate and Apportionment at a meeting held September 24, 1909.

Resolved, That, in pursuance of law, this Board sets Friday, the 10th day of December, 1909, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard; and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least fourteen (14) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing, the expense of such publication to be borne by the petitioner.

JOSEPH HAAG, Secretary.

New York, November 12, 1909.

n29,d10

PUBLIC NOTICE IS HEREBY GIVEN that at a meeting of the Board of Estimate and Apportionment held this day the following proceedings were had:

Whereas, The Flatbush Gas Company has, under date of April 6, 1908, made application to this Board for a grant of the right, privilege and franchise to construct, lay, maintain and operate suitable wires or other conductors, with the necessary poles, pipes or other fixtures, and branches or connections therefrom, in the Ocean parkway and the territory adjacent thereto, from Foster avenue to the Atlantic Ocean, Borough of Brooklyn, as described in the petition, for the purpose of supplying electricity for lighting the streets and to public and private consumers; and

Whereas, Sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on September 17, 1909, fixing the date for a public hearing thereon as October 15, 1909, at which citizens were entitled to appear and be heard, and publication was made for at least two days in the "Brooklyn Citizen" and "Standard Union," newspapers designated by the Mayor, and in the CITY RECORD, for ten days immediately prior to the date of hearing, and the public hearing was duly had on such date; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the Flatbush Gas Company, and the adequacy of the compensation proposed to be paid therefor; now therefore it is

Resolved, That the following form of resolution for the grant of the franchise or right applied for by the Flatbush Gas Company, containing the form of proposed contract for the grant of such franchise or right be hereby intro-

duced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Flatbush Gas Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all of the terms and conditions, including the provisions as to rates and charges, upon and subject to the terms and conditions in said proposed from of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

Proposed Form of Contract.

This contract, made and entered into this day of , 190 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Flatbush Gas Company, a corporation formed under and pursuant to the laws of the State of New York (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter contained, the right and privilege to maintain and operate the underground conduit laid by the Company in the easterly side of the Ocean parkway, Borough of Brooklyn, from Foster avenue, in the Thirtieth Ward, to the terminus of the said Ocean parkway, in that part of the Thirty-first ward of the said Borough commonly known as Coney Island, to lay, maintain and operate in the said conduit conductors for conducting and distributing electricity, and to construct, maintain and operate such additional conduits and underground connections as may be necessary for the purpose of supplying electricity to public and private buildings and consumers within the following territory:

Beginning at a point at the intersection of the westerly side of Ocean parkway with the northerly side of Foster avenue; running thence westerly along the northerly side of Foster avenue to its intersection with the westerly side of East Fifth street; thence southerly along the westerly side of East Fifth street and on a line therewith through private property to the intersection of the westerly side of East Fifth street with the northerly side of Avenue W; thence westerly along the northerly side of Avenue W to its intersection with the westerly side of East Fourth street; thence southerly along the westerly side of East Fourth street to its intersection with the northerly side of Avenue X; thence westerly along the northerly side of Avenue X to its intersection with the westerly side of East Third street; thence southerly along the westerly side of East Third street to its intersection with the northerly side of Avenue Y; thence westerly along the northerly side of Avenue Y to its intersection with the westerly side of East Second street; thence southerly along the westerly side of East Second street to its intersection with the northerly line of Avenue Z; thence westerly along the northerly line of Avenue Z to its intersection with the westerly side of East First street; thence southerly along the westerly side of East First street to its intersection with the northerly side of Canal avenue; thence westerly along the northerly side of Canal avenue to its intersection with the westerly side of West First street; thence southerly along the westerly side of West First street to its intersection with the northerly side of Sea Breeze avenue; thence westerly along the northerly side of Sea Breeze avenue to its intersection with the westerly side of West Fifth street; thence southerly along the westerly side of West Fifth street to the Atlantic Ocean; thence easterly along the Atlantic Ocean to its intersection with Coney Island avenue, also known as Coney Island road; thence northerly along the westerly line of Coney Island avenue, or Coney Island road, to its intersection with the northerly line of Avenue W; thence westerly along the northerly line of Avenue W to its intersection with the easterly line of East Seventh street;thence northerly along the easterly line of East Seventh street to its intersection with the southerly line of Avenue R; thence easterly along the southerly line of Avenue R to its intersection with the easterly line of East Ninth street; thence northerly along the easterly line of East Ninth street to its intersection with the northerly line of Avenue Q; thence westerly along the northerly line of Avenue Q to its intersection with the easterly line of East Seventh street; thence northerly along the easterly side of East Seventh street to its intersection with the northerly line of Foster avenue; thence westerly along the northerly line of Foster avenue to the point or place of beginning.

—the said boundaries being more clearly shown by a broken red line on the map or plan attached to this contract, dated March 21, 1908, signed by W. K. Rossiter, Vice-President, and Henry E. McGowan, Engineer of the Company, and made a part hereof.

The underground conduit above referred to is the underground conduit laid by the Company in the Ocean parkway under an greement entered into between the Commissioner of the Department of Parks of the City of Brooklyn and the Company on August 4,1897, which agreement was held by the Court of Appeals on December 17, 1907, in People *ex rel.* Flatbush Gas Company against Bird S. Coler *et al.* (190 New York Reports, 268), not to have given the Company the privilege of laying or erecting conduits or conductors for the purpose of supplying electricity to private consumers.

Sec. 2. The grant of this privilege is in consideration of and subject to and conditioned upon the performance and observance of the following conditions which shall be complied with by the Company:

First—The said right to lay, construct, maintain and operate the said conduit, wires, conductors and connections for furnishing and supplying electricity in the above described territory shall be held and enjoyed by the Company, its successors and assigns, for a period of twenty-five (25) years from December 17, 1907, with the privilege of renewal of said contract for a further period of twenty-five (25) years upon a fair revaluation of said right and privilege. Such revaluation shall be of the right and privilege to maintain and operate said conduit, wires, conductors and connections, constructed, maintained and operated under and in pursuance of this contract.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time, not earlier than two years and not later than one year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but the annual sum to be paid by the Company to the City under such renewal shall not be less than the sum required to be paid during the last year of this original contract.

If the Company and the Board shall not reach such agreement on or before the day one year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years shall be reasonable, and either the City (by the Board) or the Company shal be bound, upon request of the other, to enter into a written agreement with such other fixing the rate of such compensation at such amount as shall be reasonable, but no annual sum thus fixed shall in any event be less than the sum required to be paid by the Company to the City during the last year of this original contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate at such amount as shall be determined by three disinterested freeholders, selected in the following manner:

One disinterested freeholder shall be chosen by the Board, one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluations aforesaid. Such appraisers shall be chosen at least six months prior to the expiration of this original contract, and their report shall be filed with the Board within three months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations without the presence of either party. They shall have the right to examine the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum to be paid thereunder shall, in any event, be less than the sum required to be paid for the last year of this original contract. If, in any case, the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said apraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Second—The Company shall pay to the City for the privilege hereby granted, the following sums of money:

1. The sum of five hundred dollars ($500) for the privilege hereby granted within thirty (30) days after the signing of this contract by the Mayor.

2. The further sum of one hundred and fifty dollars ($150) for the privilege of operating during the year ending December 16, 1908, within thirty (30) days after the signing of this contract by the Mayor.

3. During the period between December 17, 1908, and December 16, 1912, an annual sum which shall in no case be less than one hundred and fifty dollars ($150), and which shall be equal to one (1) per cent. of the gross receipts of the Company in the territory in which it is authorized to operate under the terms of this contract, if such percentage shall exceed the sum of one hundred and fifty dollars ($150).

4. During the succeeding five years of this original contract an annual sum, which shall in no case be less than two hundred and fifty dollars ($250), and which shall be equal to two (2) per cent. of the gross receipts of the Company in the territory in which it is authorized to operate under the terms of this contract, if such percentage shall exceed the sum of two hundred and fifty dollars ($250).

5. During the succeeding five years of this original contract an annual sum, which shall in no case be less than four hundred dollars ($400), and which shall be equal to three (3) per cent. of the gross receipts of the Company in the territory in which it is authorized to operate under the terms of this contract, if such percentage shall exceed the sum of four hundred dollars ($400).

6. During the succeeding five years of this original contract an annual sum which shall in no case be less than five hundred dollars ($500), and which shall be equal to four (4) per cent. of the gross receipts of the Company in the territory in which it is authorized to operate under the terms of this contract, if such percentage shall exceed the sum of five hundred dollars ($500).

7. During the last five years of this original contract an annual sum, which shall in no case be less than than six hundred and fifty dollars ($650), and which shall be equal to five (5) per cent. of the gross receipts of the Company in the territory in which it is authorized to operate under the terms of this contract, if such percentage shall exceed the sum of six hundred and fifty dollars ($650).

All annual sums as above shall be paid into the treasury of the City on February 1 of each year, and shall be for the amount due to December 31 next preceding.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before February 1 in each year for the year ending December 31 next preceding.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid by any ordinance of the City or resolution of the Board or any law of the State of New York.

Third—The said annual charge or payments shall continue throughout the whole term of the privilege hereby granted, as hereinbefore provided, notwithstanding any clause in any statute or in the charter of any electric or other company providing for payments for similar rights or franchises at a different rate, and no transfer, sale, assignment, lease or sublease of the rights or franchises hereby granted, or of any part thereof, shall be valid or effectual for any purpose unless the said transfer, sale, assignment, lease or sublease shall contain a covenant on the part of the transferee, purchaser, assignee or lessee that the same is subject to all the conditions of this contract, and that the transferee, purchaser, assignee or lessee assumes and will be bound by all of said conditions, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said transferee, purchaser, assignee or lessee waives any more favorable conditions created by said statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, in the same territory in which the Company is authorized to operate by this contract.

Fifth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, either by the act of the Company, its successors or assigns, or by operation of law, whether under the provisions of the statute relating to the consolidation, merger or sale of corporations or otherwise, to any person or corporation whatsoever, nor shall the Company, its successors or assigns, in any manner consolidate or pool its stock, business or interests, or enter into any agreement for a division of business, interest or territory, or to prevent competition or a reduction in rates, or acquire, own or make use of or in any manner exercise control over any of the rights, privileges, franchises or stock, or use, own, control or operate any of the property, works, plants or appliances of any such persons or corpoartions without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Sixth—Upon the termination of this original contract, or if the same is renewed, then upon the termination of the said renewal term, or upon the termination of the rights hereby granted for any other cause, or upon the dissolution of the Company before such termination, the conduits, wires, conductors, connections and street lamps laid, erected and located by the Company, and including all property laid, erected or located by it in the streets or avenues, shall become and be the property of the City, without compensation therefor, and the same may be used by the City for any purpose whatsoever. If the Board shall so elect, upon the termination of this grant for any cause, the plant, stations and property erected and located by the Company in the Borough of Brooklyn and used exclusively to supply electricity to the territory described in section 1 of this contract, but which are not situated in any street or avenue thereof, including the buildings, plants, stations, meters, house fittings and all property not situated in the streets or avenues so used by the Company in the generation, conversion and distribution of electricity to street lamps and public and private buildings in said territory, shall become and be the property of the City on payment to the Company of the value of the same, as fixed by three disinterested freeholders, appointed and paid in the same manner and with the same powers as appraisers appointed upon any renewal of this original contract, as above set forth, but such valuation shall in no case be greater than the value of such property as shown by the last report submitted by the Company to the Board, as required by the terms of this contract, and shall not include any compensation for any value which such property may have by reason of this grant. But the provisions of this paragraph shall not apply to the buildings, plant or other property of the Company in the Twenty-ninth Ward of the Borough of Brooklyn, and shall only apply to such plant or other property as may be erected and operated exclusively to supply the territory described in section 1 of this contract.

If, however, at the termination of this grant for any cause, as aforesaid, the City, by the Board, shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove its conduits, wires, conductors and connections from all the streets and avenues and restore said streets at its own cost and expense.

Seventh—The Company shall construct and operate its electric system subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction or repair of said electric system shall be commenced until written permits have been obtained from the proper City officials, where such permits are required by the Charter of the City. In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures in the streets and avenues over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company, whether the same be under streets and avenues or in private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

The Company shall, within six months after the signing of this contract, prepare a map showing in detail the location of its underground conduits, the number of ducts in the same, the subsurface structures laying adjacent to or crossing over, under or through said underground conduits, and the size of the same, and such other information as the President of the Borough of Brooklyn may desire. Copies of this map are to be filed in the office of the Board of Estimate and Apportionment, in the office of the President of the Borough of Brooklyn, in the office of the Commissioner of Water Supply, Gas and Electricity and in the office of the Commissioner of Parks for the Borough of Brooklyn.

The Company shall, where it has opened any street or avenue for the purpose of laying or repairing any conduits or connections, or erecting lamps or for any other purpose, properly restore said pavement and maintain the same for a period of one year, all at its own expense. If the Company shall, after five (5) days' notice from the President of the Borough of Brooklyn, neglect to so restore or maintain said pavement, then the President of the Borough of Brooklyn shall be authorized to do so at the expense of the Company, and the cost of such restoration and maintenance shall be a proper charge against and may be deducted from the security fund hereinafter provided for.

Eighth—The electric plant, conduits, wires, conductors, connections and all appurtenances thereto, shall be constructed, maintained and operated in the latest approved manner, and with the most modern and improved appliances. The Company shall not construct any overhead wires, conductors or connections, or erect any poles for that purpose.

The supply of electricity furnished by the Company shall always be sufficient for public and private consumers and shall be continuous for twenty-four hours in each day during the term of this contract, or any renewal thereof, except for interruption from unavoidable causes over which the Company shall have no control.

Ninth—The Company shall, upon being directed to do so by the Commissioner of Water Supply, Gas and Electricity, extend its wires and conductors and furnish light, heat or power to any public building or street lamp.

Tenth—The Company shall file with the Board on or before the 1st day of February in each and every year a map, plan or diagram, showing the boundaries of the territory in which it is authorized to operate by this contract upon which shall be plainly marked in appropriate colors the wires and connections laid and erected by it up to December 31 of the second preceding year, and during the year ending December 31 next preceding. This map, plan or diagram shall have a statement thereon of the number of miles of conductors and connections laid and erected up to the 31st day of December of the second preceding year, and of the number of miles of conductors and connections laid and erected during the year ending on the 31st day of December next preceding the date of filing of the same, in the words and figures following, viz.:

Number of miles of conductors and connections laid and erected up to December 31, 19 : miles, feet.

Number of miles of conductors and connections laid and erected during the year ending December 31, 19 : miles, feet.

—and shall be certified by the Secretary of the Company. Copies of this map, plan or diagram shall also be filed in the office of the President of the Borough of Brooklyn, in the office of the Commissioner of Water Supply, Gas and Electricity, and in the office of the Commissioner of Parks for the Borough of Brooklyn.

Eleventh—It is a condition of this contract that the Company shall bear the entire expense of all work undertaken by reason of this grant. Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets required on account of the construction or operation of the underground conduits herein authorized to be placed in the streets, shall be made at the sole cost of the Company and in such manner as the proper City officials may prescribe.

Twelfth—It is agreed that the right hereby granted to lay and maintain conduits shall not be in preference or in hindrance to public work of the City, and should the said conduits in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense protect or move its conduits and their appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Thirteenth—Should the grades or lines of the streets and avenues in which the Company is hereby authorized to operate be changed at any time during the term of this contract or any renewal thereof, the Company shall, at its own expense, change its conduits and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets or avenues the Company shall take care of and protect its conduits and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Fourteenth—The Company shall provide in all future conduits to be laid by it, one (1) duct in every line laid for the exclusive used of the City for any purpose whatsoever, and free of any charge therefor. Provided, that the duct space required to be furnished shall not be more than one duct in every conduit of four (4) ducts laid, nor shall the total space required to be furnished exceed a space equal to two (2) ducts each three (3) inches in diameter.

Fifteenth—The Company agrees that if at any time during the term of this contract or any renewal thereof, the City shall lay out and undertake the construction and maintenance of a general system of electrical subways in the Borough of Brooklyn, and for that purpose shall deem it advisable to acquire the conduits herein authorized to be laid and maintained, or shall be required to acquire the same, the Company shall by a valid deed in writing and under seal, surrender to the City all its right, title and interest in and to such conduits and their appurtenances upon payment to it of the value of such underground conduits as fixed by appraisers appointed and paid in the same manner and having the same powers as appraisers appointed upon any renewal of this contract as hereinbefore provided. Such value shall be fixed with due regard to the reversion of such conduits to the City at the termination of this contract or renewal thereof. If, however, the City, by the Board, so determines it may at any time after March 1, 1914, require the Company, by an instrument under seal entered into between the City and the Company, to surrender to the City the said conduits and their appurtenances free of all cost, in consideration of the City allowing the Company to use all the space necessary for its corporate purposes in said conduits so surrendered free of any and all charges, whether for rental or for maintenance, from the date of the surrender of said conduits and their appurtenances to the date of the expiration of this contract or any renewal thereof.

Any agreements made by the Company with any duly authorized individual or other corporation, whether under the provisions of this contract or otherwise, whereby said duly authorized individual or other corporation is granted or given the right or permission to use said conduits and their appurtenances, shall not in any manner affect the right of the City to acquire or take over the conduits and their appurtenances belonging to the Company, free and clear of any and all incumbrances whatsoever.

This provision shall not in any way affect the City's right to the reversion of all the property of the Company in the Ocean parkway and other public streets and places upon the expiration of this contract or any renewal thereof, or upon the happening of any of the other contingencies herein provided for.

Sixteenth—Should the City at any time acquire the conduits of the Company or construct a system of conduits for the accommodation of wires and conductors theretofore strung and constructed above the surface of the street, the Company agrees that upon being directed to do so, it will remove its overhead wires and place them in said conduits, under the supervision of the proper municipal authorities, paying for the use of such conduits, except as otherwise expressly agreed in this contract, a reasonable rental to be fixed by the Board.

Seventeenth—The rates to be charged by the Company shall never be in excess of the following, and it is agreed that the same may be altered or changed by the Board as hereinafter provided.

For electricity furnished to the City or other public consumers:

(a) For lighting purposes, the sum of ten (10) cents per kilowatt hour;

(b) For other purposes the sum of twelve (12) cents per kilowatt hour, subject to the following discounts, where the monthly consumption equals or exceeds the following:

100 hourse power, 20 per cent. discount.
200 horse power, 25 per cent. discount.
400 horse power, 30 per cent. discount.
600 horse power, 35 per cent. discount.
800 horse power, 40 per cent. discount.
1,000 horse power, 45 per cent. discount.
1,500 horse power, 50 per cent. discount.

For electric street lamps consuming four hundred and fifty (450) watts of electric current at the arc, and burning 3,950 hours per year, together with proper inspection and necessary service for care and maintenance, the sum of one hundred dollars ($100) per year; and for other electric street lamps at proportionate rates, as provided by law.

For electricity furnished for all other purposes and to all other consumers, the rates fixed by chapters 390 and 616 of the Laws of 1906.

The Company also agrees that if in the future any new or improved style of street lighting is available for use, it will furnish the same at such reasonable prices as may be fixed by the Board, subject to the provisions of this contract.

Eighteenth—The Company shall supply electricity to the public buildings and public lamps of all types situated on the line or lines of the conductors of said Company, if required by the Commissioner of Water Supply, Gas and Electricity, and said public buildings and lamps shall be lighted when required by the City at rates not to exceed those hereinbefore set forth, or such as may be hereafter established by the Board. As a condition of this contract the Company binds itself to submit bids or proposals for lighting the public buildings and furnishing

and lighting public lamps of all types in the entire territory in which, during the term of this contract or any renewal thereof, it claims the right to operate along the lines of its conductors as they exist or may be extended, whenever the same are advertised or called for by the Commissioner of Water Supply, Gas and Electricity, or his successor in authority.

Nineteenth—During the term of this contract or any renewal thereof the Board shall have the power to regulate and fix the maximum and minimum rates to be charged by the Company throughout the territory in which it is hereby granted the right to operate, provided such rates shall be reasonable and fair.

The maximum rates herein fixed for electricity furnished by the Company shall continue until September 16, 1912, at which time and at the end of each period of five years thereafter during the term of the contract or any renewal thereof, the Board shall have the power to readjust such rates, provided the same shall not exceed those fixed by law or be unreasonable or unfair to the Company.

Twentieth—The Company shall, upon request from any individual, company or corporation, occupying premises in the territory covered by this contract, not in arrears to it for services already rendered, and who has not agreed with any previous occupier of the premises occupied by such individual, company or corporation, to assume the payment of any moneys due by such previous occupier to the Company, extend its conductors to the premises of such individual, company or corporation, and supply current for light, heat or power or any or all of such purposes; provided that it shall not be required to so extend its conductors where the ground in which the same are to be laid shall be frozen, during the period in which the said frozen condition shall continue.

The Company shall not require or receive any deposit or advance payment in excess of what is reasonably necessary to insure payment of current bills, and on such amounts so paid the Company shall pay interest at the statutory rate. Any consumer or person who desires to be connected with the conductors of the Company can apply to the Board to compel the Company, in compliance with the provisions of this contract, to connect with and furnish electricity to such consumer or person, and all orders of the Board made on the request of any such consumer or person shall be complied with by the Company.

The provisions of section 63 of the Transportation Corporations Law fixing a penalty for failure of any electric company to extend its service to an applicant, and of this subdivision of the contract requiring the payment of interest on deposits made by consumers, may, in the event of the refusal of the Company to comply with any order of the Board, on complaint made in regard thereto, be deducted from the security fund to be deposited with the Comptroller, as hereinafter provided, and the Comptroller is authorized to deduct the amount from the said fund and pay the same to the claimant, on being directed to do so by the Board.

Twenty-first—The Company shall assume all liability to persons or property by reason of the construction or operation of the system authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or defaults of the Company.

Twenty-second—The Company shall submit to the Board a report not later than February 1 of each year, for the year ending December 31 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate of interest per annum on funded debt.
10. Statement of dividents paid during year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the stockholders of the Company held for that purpose.
13. Cost of underground conduits and appurtenances in territory covered by this contract to the year preceding and moneys expended on same during year.
14. Present value of said conduits and appurtenances based on cost and depreciation.
15. Miles of conductors.
16. Amount of electricity in kilowatts furnished to consumers other than City, number and kind of lamps, motors and heaters supplied with same and amount received therefor.
17. Amount of electricity furnished to the City, in kilowatts, number and kind of lamps, motors and heaters supplied with same and amount received therefor.
18. Total receipts from sales of electricity in territory covered by this contract.
19. Operating expenses, interest and other charges.
20. Net earnings and surplus from such sales.
21. Statement of receipts and expenses from all operations in entire territory.
22. Cost of furnishing electricity per kilowatt in territory covered by this contract and in entire territory in which Company operates.
23. Balance sheet for year.
24. Amounts paid by Company for damages to persons or property on account of construction and operation.

—and such other iformation in regard to the business of the Company as may be required by the Board.

Twenty-third—The Company shall at all times keep accurate books of account and shall, on or before February 1 in each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending December 31 next preceding. Such report shall contain a statement of the gross receipts from all business done by the Company in the territory in which it is authorized to operate by this contract, together with such other information and in such form and detail as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report and may examine its officers under oath.

Twenty-fourth—In case of any violation or breach or failure to comply with any of the provisions of this contract, the same may be forfeited by a suit brought by the Corporation Counsel on notice of ten days to the Company, or at the option of the Board, by resolution of said Board, which said resolution may contain a provision to the effect that all property constructed and in use by virtue of this grant shall thereupon bcome the property of the City without proceedings at law or in equity.

If for a period of two consecutive weeks the electric system of the Company shall not be operated, the Board may declare the right and franchise granted by this contract terminated without further proceedings in law or in equity, if it shall appear in the judgment of said Board that the same was not operated through the fault of the Company. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-fifth—If the said Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures in good condition throughout the full term of its occupancy of such streets, or fail to comply with any provision of this contract, except as hereinafter otherwise provided, the Board, if it so elects, instead of commencing proceedings to terminate this contract may give written notice to the said Company, specifying any default on the part of said Company, and requiring said Company to remedy the same within a reasonable time, and upon the failure of the Company to remedy said default within a reasonable time, said Company shall for each day thereafter during which the default or defect remains, pay to the City the sum of one hundred dollars ($100) as fixed and liquidated damages, or the said City, in case such structures which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board, as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the said Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, and in default of such payment, the same shall be a proper charge against and may be deducted from the security fund to be deposited with the Comptroller as hereinafter provided.

Twenty-sixth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred thereby, shall deposit with the Comptroller of the City the sum of seven hundred and fifty dollars ($750), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of the terms and conditions of this contract, especially those which relate to the payment of the annual charge for the franchise granted, and requiring the removal of the Company's overhead wires; and in case of such default in the annual payment the City shall collect the same, with interest, from the said fund after ten (10) days' notice in writing to the said Company; or in case of default by the Company in the removal of its overhead wires, pursuant to the provisions of this contract, the City, after ten (10) days' notice to the Company, shall have the right to cause the said work to be done and collect the reasonable cost thereof from the said fund without legal proceedings. In case of the failure of the Company to comply with the terms of this contract relating to the filing of annual statements, or its neglect or refusal to comply with any demand or direction of the Board or other Municipal officials, made pursuant to the terms of this contract, or under the authority of any laws or ordinances now or hereafter in force, in such case and in any of these events, the Company, except as herein otherwise provided, shall pay to the City a penalty of fifty dollars ($50) for each violation.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on its own motion or on complaint made, shall give notice to the Company, directing its president or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing, appears, in the judgment of the Board, to be in fault, said Board shall forthwith impose the prescribed penalties, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him.

In case of any drafts made upon the security fund, the Company shall, upon ten (10) days' notice in writing, pay to the City a sum sufficient to restore said security fund to the original amount of seven hundred and fifty dollars ($750), and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City, in the same manner as provided for other breaches in section 2, twenty-fourth thereof. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Twenty-seventh—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Twenty-eighth—Unless expressly so provided therein, none of the conditions or provisions inserted in this contract shall be deemed to apply to any other territory than that described in section 1 hereof, nor to bind the Company in regard to its operations, rights or property in such other territory.

Twenty-ninth—If at any time the powers of the Board or any other of the authorities herein mentioned, or intended to be mentioned, shall be transferred by law to any other Board, authority, officer or officers, then, and in such case, such other Board, authority, officer or officers shall have the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Thirtieth—The grant of this privilege is subject to whatever right, title or interest the owners of abutting property or others may have in and to the streets, avenues and highways of the territory in which the Company is authorized to operate by this contract.

Thirty-first—The words "streets and avenues" or "streets or avenues," when and where used, shall be deemed to include the Ocean parkway and any and all streets, avenues, roads, highways, boulevards, parkways, parks and public places.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Sec. 4. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained, in addition to all provisions of law pertinent hereto.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed, and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By....., Mayor.

[CORPORATE SEAL.]
Attest:
....., City Clerk.

FLATBUSH GAS COMPANY,
By....., President.

[CORPORATE SEAL.]
Attest:
....., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates and charges, are as hereinbefore specified and fully see forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the Flatbush Gas Company and the said form of proposed contract for the grant of such franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Friday, December 3, 1909, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Friday, December 3, 1909, in two daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the Flatbush Gas Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the Flatbush Gas Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meting of said Board to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Friday, December 3, 1909, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

(Brooklyn "Citizen" and "Standard Union" designated.)

JOSEPH HAAG, Secretary.

Dated New York October 15, 1909.

n9,d3

BOROUGH OF QUEENS.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, FIFTH STREET AND JACKSON AVENUE, LONG ISLAND CITY, BOROUGH OF QUEENS, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President ot the Borough of Queens at the above office until 11 o'clock a. m. on

MONDAY, DECEMBER 6, 1909,

No. 1. TO FLAG THE SIDEWALKS ON SIXTH AVENUE, FROM JACKSON AVENUE TO GRAHAM AVENUE, AND TO PAVE THE ROADWAY WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION, FROM JACKSON AVENUE TO PIERCE AVENUE, FIRST WARD OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be seventy-five (75) working days.

The amount of security required will be Eight Thousand Five Hundred Dollars ($8,500).

The Engineer's estimate of the quantities is as follows:

24,000 square feet of new flagstone sidewalk.
820 cubic yards of concrete.
6,500 square yards of asphalt block pavement.

No. 2. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS AND CROSSWALKS IN FOURTH AVENUE, FROM BROADWAY TO GRAHAM AVENUE, FIRST WARD.

The time allowed for doing and completing the above work will be sixty (60) working days.

The amount of security required will be Four Thousand Dollars ($4,000).

The Engineer's estimate of the quantities is as follows:

1,000 cubic yards of earth excavation.
11,000 cubic yards of embankment in excess of excavation.
1,900 linear feet of new bluestone curb.
75 linear feet of old curb, redressed and reset.
9,450 square feet of new flagstone sidewalk.
135 square feet of new crosswalks.

No. 3. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS AND CROSSWALKS IN WOOLSEY AVENUE, FROM SECOND AVENUE TO HALLETT STREET, FIRST WARD.

The time allowed for doing and completing the above work will be one hundred (100) working days.

The amount of security required will be Seven Thousand Dollars ($7,000).

The Engineer's estimate of the quantities is as follows:

2,650 cubic yards of earth excavation.
15,000 cubic yards of embankment in excess of excavation.
3,830 linear feet of cement curb.
17,200 square feet of new flagstone sidewalk.
3,420 square feet of new crosswalks.

No. 4. FOR REGULATING AND GRADING HUNTERS POINT AVENUE, FROM VAN DAM STREET TO THE EAST APPROACH TO THE BRIDGE CROSSING THE TRACKS OF THE PENNSYLVANIA TUNNEL AND TERMINAL COMPANY, FIRST WARD.

The time allowed for doing and completing the above work will be one hundred and twenty (120) working days.

The amount of security required will be Seven Thousand Dollars ($7,000).

The Engineer's estimate of the quantities is as follows:

6,000 cubic yards of earth excavation.
30,000 cubic yards of embankment, in excess of excavation.

No. 5. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS AND CROSSWALKS IN WOOLSEY AVENUE, FROM TENTH AVENUE TO PARK PLACE, FIRST WARD.

The time allowed for doing and completing the above work will be forty-five (45) working days.

The amount of security required will be Six Thousand Dollars ($6,000).

The Engineer's estimate of the quantities is as follows:

10,484 cubic yards of earth excavation.
2,920 linear feet of cement curb.
13,200 square feet of new flagstone sidewalks.
4,188 square feet of new crosswalks.

No. 6. FOR REGULATING AND GRADING IN SOUTH WASHINGTON PLACE, FROM ACADEMY STREET TO JACKSON AVENUE, FIRST WARD.

The time allowed for doing and completing the above work will be sixty (60) working days.

The amount of security required will be Three Thousand Dollars ($3,000).

The Engineer's estimate of the quantities is as follows:

11,000 cubic yards of embankment, in excess of excavation.

No. 7. FOR REGULATING AND GRADING IN JACKSON AVENUE, FROM WOODSIDE AVENUE TO TRAINS MEADOW ROAD, SECOND WARD.

The time allowed for doing and completing the above work will be one hundred and twenty (120) working days.

The amount of security required will be Twenty-three Thousand Dollars ($23,000).

The Engineer's estimate of the quantities is as follows:

126,000 cubic yards of embankment, in excess of excavation.
3,600 cubic yards of earth excavation.

No. 8. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS IN A DIAGONAL STREET EXTENDING FROM JACKSON AVENUE TO THOMSON AVENUE, FIRST WARD.

The time allowed for doing and completing the above work will be one hundred and twenty (120) working days.

The amount of security required will be Seven Thousand Dollars ($7,000).

The Engineer's estimate of the quantities is as follows:

600 cubic yards of earth excavation.
26,300 cubic yards of embankment in excess of excavation.
1,800 linear feet of cement curb.
15,000 square feet of cement sidewalk.

No. 9. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION IN A DIAGONAL STREET EXTENDING FROM JACKSON AVENUE TO THOMSON AVENUE, FIRST WARD.

The amount of security required will be Seven Thousand Dollars ($7,000).

The time allowed for doing and completing the above work will be forty (40) working days.

The Engineer's estimate of the quantities is as follows:

1,400 cubic yards of concrete.
6,200 square yards of asphalt block pavement.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereafter annexed, per square yard, linear foot or other unit of measure by which the bids will be tested.

The extensions must be made and footed up, as the bids will be read from a total.

Bids will be compared and the contract awarded at a lump or aggregate sum. Blank forms may be obtained, and the plans and drawings may be seen at the office of the President of the Borough of Queens.

Dated Long Island City, November 23, 1909.

LAWRENCE GRESSER, President.

n23,d6

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

CHANGE OF GRADE DAMAGE COMMISSION.

TWENTY-THIRD AND TWENTY-FOURTH WARDS.

PURSUANT TO THE PROVISIONS OF chapter 537 of the Laws of 1893 and the acts amendatory thereof and supplemental thereto, notice is hereby given that meetings of the Commissioners appointed under said acts will be held at the office of the Commission, Room 219, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City, on Mondays, Wednesdays and Fridays of each week, at 2 o'clock p. m., until further notice.

Dated New York City, July 27, 1909.

WILLIAM E. STILLINGS,
GEORGE C. NORTON,
LEWIS A. ABRAMS,
Commissioners.

LAMONT MCLOUGHLIN, Clerk.

DEPARTMENT OF HEALTH.

DEPARTMENT OF HEALTH, CORNER OF FIFTY-FIFTH STREET AND SIXTH AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health until 10 o'clock a. m. on

WEDNESDAY, DECEMBER 8, 1909,

FOR FURNISHING ALL THE LABOR AND MATERIALS NECESSARY OR REQUIRED TO FURNISH AND INSTALL RAILS, FITTINGS, ETC., WITH ALL NECESSARY ALTERATIONS AND OTHER WORK INCIDENTAL THERETO, IN THE OFFICE BUILDING AT THE SOUTHWEST CORNER OF FLEET AND WILLOUGHBY STREETS, BOROUGH OF BROOKLYN, CITY OF NEW YORK.

The time for the completion of the work and the full performance of the contract is sixty (60) consecutive working days.

The amount of security required is fifty per cent. (50%) of the amount of the bid.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and plans for the above work and further information may be obtained at the office of the Chief Clerk of the Department of Health, southwest corner of Fifty-fifth street and Sixth avenue, Borough of Manhattan, City of New York.

THOMAS DARLINGTON, M. D.,
President;
ALVAH H. DOTY, M. D.,
WILLIAM F. BAKER,
Board of Health.

Dated November 22, 1909.

n22,d8

☞ See General Instructions to Bidders on the last page, last column, of the "City Record."

SUPREME COURT—FIRST DEPARTMENT.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of THE TRIANGULAR AREA bounded by La Fontaine avenue, Quarry road and the south side of Oak Tree place, in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I., to be held at the County Court House in the Borough of Manhattan, in The City of New York, on the 9th day of December, 1909, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of ten days, as required by law.

Dated Borough of Manhattan, New York, November 26, 1909.

HAL BELL,
TIMOTHY M. HARTNETT,
FREDERICK J. SCHMAELZLEIN,
Commissioners of Estimate.
HAL BELL,
Commissioner of Assessment.

JOHN P. DUNN, Clerk.

n26,d7

FIRST DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of BRONX BOULEVARD (although not yet named by proper authority), from Old Boston Post road to East Two Hundred and Forty-second street (Demilt avenue), in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE supplemental and additional bill of costs, charges and expenses incurred by reason of the proceedings in the above entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I., to be held at the County Court House in the Borough of Manhattan, in The City of New York, on the 6th day of December, 1909, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon, and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of ten days, as required by the provisions of section 999 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906, title 4 of chapter 19 of chapter 378 of the Laws of 1897.

Dated, Borough of Manhattan, New York, November 22, 1909.

JAMES A. DONNELLY,
S. DUNCAN MARSHALL,
MICHAEL E. DEVLIN,
Commissioners.

JOHN P. DUNN, Clerk.

n22,d3

SUPREME COURT—SECOND DEPARTMENT.

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of AVENUE J, from Ocean parkway to East Sixteenth street, excepting the property occupied by the tracks of the Long Island Railroad and the Brooklyn and Brighton Beach Railroad, in the Thirty-first Ward, Borough of Brooklyn, City of New York.

NOTICE IS HEREBY GIVEN TO ALL persons interested in the above-entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned Commissioners of Estimate have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections, in writing, duly verified, with them at their office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 27th day of December, 1909, at 2 o'clock p. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections, in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 28th day of December, 1909, at 2 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 5th day of June, 1908, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Bounded on the north by a line midway between Avenue I and Avenue J; on the east by a line midway between East Sixteenth street and East Seventeenth street; on the south by a line midway between Avenue J and Avenue K, and on the west by a line midway between East Fifth street and Ocean parkway.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 3d day of January, 1910.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 31st day of January, 1910, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, December 3, 1909.

MOSES J. HARRIS,
M. F. McGOLDRICK,
WILLIAM HOWARD, JR.,
Commissioners of Estimate.
MOSES J. HARRIS,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

d3,20

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of AVENUE K, from Ocean parkway to East Sixteenth street, excluding the lands occupied by the tracks of the Brooklyn and Brighton Beach Railroad and of the Long Island Railroad, in the Thirty-first Ward, Borough of Brooklyn, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERsons interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned Commissioners of Estimate have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections, in writing, duly verified, with them at their office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 27th day of December, 1909, at 3 o'clock p. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit, and that all persons interested in this proceeding or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioner will hear parties so objectiing, and for that purpose will be in attendance at his said office on the 28th day of December, 1909, at 3 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 22d day of May, 1908, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.: Bounded on the north by a line midway between Avenue J and Avenue K, and by the prolongation of the said line; on the east by a line midway between East Sixteenth street and East Seventeenth street, and by the prolongation of the said line; on the south by a line midway between Avenue K and Avenue L, and by the prolongation of the said line, and on the west by a line distant 100 feet westerly from and parallel with the westerly line of Ocean parkway, the said distance being measured at right angles to the line of Ocean parkway.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 3d day of January, 1910.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 31st day of January, 1910, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, December 3, 1909.

JOHN B. LORD,
MARCUS B. CAMPBELL,
ISAAC W. JACOBSON,
Commissioners of Estimate.
JOHN B. LORD,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

d3,20

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of SNEDIKER AVENUE, between Dumont avenue and the bulkhead line of Fresh Creek, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERsons interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned Commissioners of Estimate have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections, in writing, duly verified, with them at their office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 27th day of December, 1909, at 3.30 o'clock p. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 28th day of December, 1909, at 3.30 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 19th day of April, 1907, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Bounded on the north by a line 100 feet distant northerly from and parallel with the northerly side of Dumont avenue, said distance being measured at right angles to the line of Dumont avenue; on the east by a line midway between Snediker avenue and Hinsdale street, and by the prolongation of the said line; on the south by a line midway between the bulkhead lines of Fresh Creek, and on the west by a line midway between Snediker avenue and Van Sinderen avenue and by the prolongation of the said line.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings, in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 3d day of January, 1910.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 31st day of January, 1910, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, December 3, 1909.

ADOLPH VANREIN,
WALTER G. BIGGAR,
GEORGE W. BAILDON,
Commissioners of Estimate;
ADOLPH VANREIN,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

d3,20

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of SHEPHERD AVENUE, between Atlantic avenue and New Lots road, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York.

NOTICE IS HEREBY GIVEN TO ALL persons interested in the above entitled proceeding, and to the owner or owners, occupant of occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned Commissioners of Estimate have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 27th day of December, 1909, at 2 o'clock p. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 28th day of December, 1909, at 2 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 19th day of April, 1907, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the northerly side of New Lots road where the same is intersected by a line midway between Shepherd avenue and Essex street, and running thence northwardly along the said centre line of the block between Shepherd avenue and Essex street to the southerly line of Atlantic avenue; thence eastwardly along the southerly line of Atlantic avenue to the point where the said line is intersected by a line midway between Shepherd avenue and Berriman street; thence southwardly along the said line midway between Shepherd avenue and Berriman street, and along the said line extended to the southerly line of New Lots road; thence southwardly at right angles to the line of New Lots road 100 feet; thence westwardly and parallel with the southerly line of New Lots road to the point where the said line is intersected by a line at right angles to New Lots road, and passing through the point described as the point or place of beginning; thence northwardly to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 3d day of January, 1910.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 31st day of January, 1910, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated, Borough of Brooklyn, New York, December 3, 1909.

WILLIAM H. TAYLOR,
LAWRENCE J. TORMEY,
ROBERT V. SWIFT,
Commissioners of Estimate.
WILLIAM H. TAYLOR,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

d3,20

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of MILFORD STREET, between Glenmore avenue and Pitkin avenue, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York.

NOTICE IS HEREBY GIVEN TO ALL persons interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned Commissioners of Estimate have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 27th day of December, 1909, at 11 o'clock a. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 22d day of December, 1909, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 28th day of December, 1909, at 11 o'clock a. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 27th day of March, 1908, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz:

Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Glenmore avenue, the said distance being measured at right angles to the line of Glenmore avenue; on the east by a line midway between Logan street and Milford street; on the south by a line distant 100 feet southerly from and parallel with the southerly line of Pitkin avenue, the said distance being measured at right angles to the line of Pitkin avenue; on the west by a line midway between Milford street and Montauk avenue.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 3d day of January, 1910.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 31st day of January, 1910, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, December 3, 1909.

M. F. McGOLDRICK,
ROGER GALLAGHER,
DAVID M. STONE,
Commissioners of Estimate.
M. F. McGOLDRICK,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

d3,20

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to the lands, tenements and hereditaments required for the purpose of opening and extending BENTON STREET from Kingsland avenue to Vandervoort avenue in the Eighteenth Ward in the Borough of Brooklyn in The City of New York, as the same has been heretofore laid out.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, at a Special Term thereof to be held for the hearing of motions, at the Kings County Court House in the Borough of Brooklyn in The City of New York, on the 17th day of December, 1909, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of Kings, there to remain for and during the space of ten days, as required by the provisions of section 999 of title 4 of chapter 17, of chapter 378 of the Laws of 1897, as amended by chapter 466 of the Laws of 1901.

Dated, Borough of Brooklyn, New York, December 3, 1909.

HENRY MARSHALL,
JAMES TAYLOR,
FRANK JULIAN PRICE.
Commissioners.

JAMES F. QUIGLEY, Clerk.

d3,14

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands and premises required for the opening and extending of JAMAICA AVENUE (although not yet named by proper authority), from Old Bowery Bay road to East River, in the First Ward, Borough of Queens, in The City of New York.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Assessment in the above-entitled matter will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, for the hearing of motions, to be held in the County Court House in the Borough of Brooklyn in The City of New York, on the 10th day of December, 1909, at 10.30 o'clock in the forenoon of that day; and that the said final report has been deposited in the office of the Clerk of the County of Queens, there to remain for and during the space of five days, as required by law.

Dated, Borough of Manhattan, New York, December 2, 1909.

WILLIAM W. GILLEN,
JAMES J. WHITE,
Commissioners.

JOHN P. DUNN, Clerk.

d2,8

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands and premises required for the opening and extending of SEVENTEENTH STREET (although not yet named by proper authority), from Queens avenue to Oak avenue, in the Third Ward, Borough of Queens, in The City of New York.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Assessment in the above-entitled matter will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof, for the hearing of motions, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 9th day of December, 1909, at 10.30 o'clock in the forenoon of that day; and that the said final report has been deposited in the office of the Clerk of the County of Queens, there to remain for and during the space of five days, as required by law.

Dated Borough of Manhattan, New York, December 1, 1909.

ELMER G. STORY,
HENRY A. VAN ALLEN,
HARRY R. GELWICKS,
Commissioners.

JOHN P. DUNN, Clerk.

d1,7

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title to the lands, tenements and hereditaments required for the purpose of opening and extending SIXTY-SEVENTH STREET, between Fort Hamilton avenue and New Utrecht avenue, and SIXTY-EIGHTH STREET, between Fort Hamilton avenue and Tenth avenue, in the Thirtieth Ward, in the Borough of Brooklyn, in The City of New York, as the same has been heretofore laid out.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, at a Special Term thereof to be held for the hearing of motions, at the Kings County Court House in the Borough of Brooklyn, in The City of New York, on the 10th day of December, 1909, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of Kings, there to remain for and during the space of ten days, as required by the provisions of section 999 of title 4 of chapter 17, of chapter 378 of the Laws of 1897, as amended by chapter 466 of the Laws of 1901.

Dated Borough of Brooklyn, New York, November 29, 1909.

GEORGE FREIFELD,
GEO. E. GLENDENNING,
CHAS. BAYER,
Commissioners of Estimate.
GEORGE FREIFELD,
Commissioner of Assessment.

JAMES F. QUIGLEY, Clerk.

n29,d9

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of BEADEL STREET, from Kingsland avenue to Gardner avenue, in the Eighteenth Ward Borough of Brooklyn, City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections, in writing, duly verified, to us at our office, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 18th day of December, 1909, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 20th day of December, 1909, at 12 o'clock noon.

Second—That the abstracts of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 29th day of December, 1909.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the easterly side of Kingsland avenue where the same is intersected by the centre line of the block between Beadel street and Lombardy street; running thence easterly and along the centre line of the blocks between Beadel street and Lombardy street to the westerly side of Varick avenue; thence southerly along the westerly side of Varick avenue to the centre line of the block between Beadel street and Division place; thence westerly and along the centre line of the blocks between Beadel street and Division place to the easterly side of Kingsland avenue; running thence northerly and along the easterly side of Kingsland avenue to the point or place of beginning.

Fourth—That, provided there be no objections filed to either of said abstracts, our final report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House in the Borough of Brooklyn, in The City of New York, on the 26th day of January, 1910, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to either of said abstracts of estimate and assessment, the notice of motion to confirm our final report herein will stand adjourned to the date to be hereafter specified, and of which notice will be given to all those who have theretofore appeared in this proceeding, as well as by publication in the CITY RECORD and in the corporation newspapers, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, November 29, 1909.

WALTER T. BENNETT,
JOHN ELLIOTT,
MATTHEW J. MURPHY,
Commissioners.

JAMES F. QUIGLEY, Clerk.

n29,d15

SECOND DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of FIRST AVENUE (although not yet named by proper authority), from Jersey street to Pine street, in the First Ward, Borough of Richmond, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above entitled matter, will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held for the hearing of motions, at the County Court House in the Borough of Brooklyn, in The City of New York, on the 10th day of December, 1909, at 10.30 o'clock in forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of Richmond, there to remain for and during the space of ten days, as required by law.

Dated Borough of Manhattan, New York, November 27, 1909.

EUGENE ALEXANDER,
JAS. J. A. HASSON,
G. C. TRANTER,
Commissioners of Estimate;
EUGENE ALEXANDER,
Commissioner of Assessment.

JOHN P. DUNN, Clerk.

n27,d8

SUPREME COURT—THIRD JUDICIAL DISTRICT.

THIRD JUDICIAL DISTRICT, ULSTER COUNTY.

NORTHERN AQUEDUCT DEPARTMENT, SECTION No. 5.

Towns of Gardiner, Plattekill and Shawangunk.

In the matter of the application and petition of J. Edward Simmons, Charles N. Chadwick and Charles A. Shaw, constituting the Board of Water Supply of The City of New York, to acquire real estate for and on behalf of The City of New York, under chapter 724 of the Laws of 1905, and the acts amendatory thereof, in the Towns of Gardiner, Plattekill and Shawangunk, Ulster County, N. Y., for the purpose of providing an additional supply of pure and wholesome water for the use of The City of New York.

PUBLIC NOTICE IS HEREBY GIVEN that the second separate report of Robert L. Cutting, Byron L. Davis and John M. Schoonmaker, who were appointed Commissioners of Appraisal in the above-entitled matter by an order of this Court, made at a Special Term thereof, held at the Court House in the City of Kingston, Ulster County, N. Y., on the 21st day of December, 1907, was filed in the office of the Clerk of the County of Ulster on the 18th day of November, 1909, and affects Parcels Nos. two hundred and two (202), two hundred and three (203), two hundred and seven (207), two hundred and ten (210), two hundred and eleven (211), two hundred and thirteen (213), two hundred and fourteen (214), two hundred and sixteen (216), two hundred and seventeen (217), two hundred and eighteen (218), two hundred and nineteen (219), two hundred and twenty (220), two hundred and twenty-one (221), two hundred and twenty-two (222), two hundred and twenty-four (224), two hundred and twenty-seven (227), two hundred and thirty-one (231), two hundred and thirty-three (233), two hundred and thirty-four (234), two hundred and thirty-five (235), two hundred and thirty-six (236), two hundred and thirty-seven (237), two hundred and forty (240), two hundred and forty-one (241), two hundred and forty-two (242), two hundred and forty-six (246), two hundred and forty-seven (247), two hundred and sixty (260) and two hundred and sixty-two (262), shown on the map in this proceeding.

Notice is further given that an application will be made at a Special Term of the Supreme Court of the State of New York, to be held in and for the Third Judicial District, at the Court House in the City of Kingston, County of Ulster, N. Y., on the 18th day of December, 1909, at 10 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, for an order confirming said report and for such other and further relief as may be just.

Reserving to The City of New York the right to oppose the confirmation of any or all parcels contained in said report.

Dated New York, November 24, 1909.

FRANCIS KEY PENDLETON,
Corporation Counsel.

Hall of Records, New York City.

n27.d18

THIRD JUDICIAL DISTRICT.

ULSTER COUNTY.

Ashokan Reservoir, Section No. 14.

ULSTER COUNTY, TOWN OF OLIVE.

In the matter of the application and petition of John A. Bensel, Charles N. Chadwick and Charles A. Shaw, constituting the Board of Water Supply of The City of New York, to acquire real estate for and on behalf of The City of New York, under chapter 724 of the Laws of 1905 and the acts amendatory thereof, in the Town of Olive, Ulster County, N. Y., for the purpose of providing an additional supply of pure and wholesome water for the use of The City of New York.

PUBLIC NOTICE IS HEREBY GIVEN that the second separate report of Edward Murphy 2d, William E. E. Little and John C. Fitzgerald, who were appointed Commissioners of Appraisal in the above entitled matter by an order of this Court, made at a Special Term thereof, held at the Court House, in the City of Kingston, N. Y., upon the 20th day of March, 1909, was filed in the office of the Clerk of the County of Ulster on the 26th day of November, 1909, and affects parcels numbers six hundred and ninety-six (696), six hundred and ninety-one (691), six hundred and ninety-five (695), six hundred and seventy five (675), six hundred and eighty-one (681), six hundred and ninety-three (693), six hundred and ninety-seven (697), seven hundred and seven (707), seven hundred and five (705), seven hundred and nine (709) and six hundred and ninety (690), shown on the map of this proceeding.

Notice is further given that an application will be made at a Special Term of the Supreme Court of the State of New York, to be held in and for the Third Judicial District District, at the Court House, in the City of Kingston, N. Y., on the 18th day of December, 1909, at 10 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, for an order confirming said report and for such other and further relief as may be just.

Reserving to The City of New York the right to oppose the confirmation of any or all parcels mentioned in said report.

Dated New York, November 26, 1909.

FRANCIS K. PENDLETON,
Corporation Counsel.

Hall of Records, Corner of Chambers and Centre Streets, Borough of Manhattan, New York City.

n27,d18

THIRD JUDICIAL DISTRICT.

ULSTER COUNTY.

Ashokan Reservoir—Highway Section.

In the matter of the application and petition of John A. Bensel, Charles N. Chadwick and Charles A. Shaw, constituting the Board of Water Supply of The City of New York, to acquire real estate for and on behalf of The City of New York, under chapter 724 of the Laws of 1905, and the acts amendatory thereof, for the purpose of procuring the approval by the Supreme Court of certain new highways in place and stead of highways to be discontinued in the Towns of Olive, Marbletown, Hurley, Woodstock and Kingston, County of Ulster and State of New York.

PUBLIC NOTICE IS HEREBY GIVEN that the first separate report of Sydney Harris, C. Gordon Reel and and James T. McKenna, who were appointed Commissioners of Appraisal in the above entitled matter by an order of this Court, made at a Special Term thereof, held at the Court House, in the City of Troy, N. Y., upon the 13th day of March, 1909, was filed in the office of the Clerk of the County of Ulster on the 12th day of November, 1909, and affects the claims of the Hudson River Telephone Company and the Citizens' Standard Telephone Company, as shown by the claims filed by each of said companies before this Commission.

Notice is further given that an application will be made at a Special Term of the Supreme Court of the State of New York, to be held in and for the Third Judicial District, at the City Hall, in the City of Albany, N. Y., on the 11th day of December, 1909, at 10 o'clock in the forenoon thereafter as counsel can be heard, for an order confirming said report and for such other and further relief as may be just.

Reserving to The City of New York the right to oppose the confirmation of the whole of said report or of any part thereof.

Dated New York, November 18, 1909.

FRANCIS K. PENDLETON,
Corporation Counsel.

Hall of Records, Corner of Chambers and Centre Streets, Borough of Manhattan, New York City.

n20,d11

SUPREME COURT—NINTH JUDICIAL DISTRICT.

NINTH JUDICIAL DISTRICT.

ORANGE COUNTY.

Northern Aqueduct Department—Section No. 8.

In the matter of the application and petition of John A. Bensel, Charles N. Chadwick and Charles A. Shaw, constituting the Board of Water Supply of The City of New York, to acquire real estate for and on behalf of The City of New York, under chapter 724 of the Laws of 1905 and the acts amendatory thereof, in the Towns of Cornwall, New Windsor and Newburgh, Orange County, N. Y., for the construction of Catskill Aqueduct and appurtenances, from the vicinity of Vailsgate to the vicinity of Coldenham.

PUBLIC NOTICE IS HEREBY GIVEN that the first separate report of Rudolph Block, George Milton Hines and Frank V. Leeds, who were appointed Commissioners of Appraisal in the above entitled matter by an order of this Court, made at a Special Term thereof, held at the Court House, in the City of Poughkeepsie, N. Y., on the 17th day of April, 1909, was filed in the office of the Clerk of the County of Orange November 11, 1909, and affects parcels numbers three hundred and seventy-five (375), three hundred and eighty-six (386), three hundred and eighty-five (385), four hundred and five (405), four hundred and two (402), four hundred and one (401), three hundred and ninety-six (396), three hundred and ninety-nine (399), four hundred and three (403) and three hundred and ninety-five (395), shown on the map in this proceeding.

Notice is further given that an application will be made at a Special Term of the Supreme Court, appointed to be held in and for the Ninth Judicial District, at Supreme Court Chambers, in the City of Poughkeepsie, N. Y., on the 11th day of December, 1909, at 10 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, for an order confirming said report and for such other and further relief as may be just.

Reserving to The City of New York the right to oppose the confirmation of any or all awards contained in said report.

Dated November 12, 1909.

FRANCIS KEY PENDLETON,
Corporation Counsel.

Hall of Records, Corner of Chambers and Centre Streets, Borough of Manhattan, New York City.

n20,d11

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICE TO CONTRACTORS.

GENERAL INSTRUCTIONS TO BIDDERS.

The person or persons making a bid or estimate for any services, work, materials or supplies for The City of New York, or for any of its departments, bureaus or offices, shall furnish the same in a sealed envelope, indorsed with the title of the supplies, materials, work or services for which the bid or estimate is made, with his or their name or names and the date of presentation to the President or Board or to the head of the Department at his or its office, on or before the date and hour named in the advertisement for the same, at which time and place the estimates received will be publicly opened by the President or Board or head of said Department and read, and the award of the contract made according to law as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, and names of all persons interested with him therein, and, if no other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of The City of New York is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in The City of New York, or of a guaranty or surety company duly authorized by law to act as surety, and shall contain the matters set forth in the blank forms mentioned below.

No bid or estimate will be considered unless, as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The certified check or money should not be inclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City.

The contract must be bid for separately.

The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of the City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by the City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department for which the work is to be done. Plans and drawings of construction work may also be seen there.