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Bellevue and Allied Hospitals.

Synopsis of Proceedings.

A meeting of the Board of Trustees of Bellevue and Allied Hospitals was held on July 18, 1912. Present, Dr. Brannan, the President, in the chair; Messrs. O'Keefe, Paulding and Stern, Trustees, and Mr. Drummond, Commissioner of Public Charities. Excused, Messrs. Farley, Robbins and Sachs.

The minutes of the meetings of June 4 and July 2, copies of which had been sent to each member, were held as read and approved.

Bills, amounting to \$79,038.92, were approved for payment.

Reports of Committees.

The Conference Committee of the Third Division of Bellevue Hospital recommended the appointment of Dr. Lee W. Thomas as Physician to Out Patients on the children's service of that Division. This report was approved and Dr. Thomas appointed accordingly.

The Conference Committee of the Second Division of Bellevue Hospital reported upon the recommendation that Dr. Eugene F. DuBois be appointed to take charge of the calorimeter work on that Division, and on motion, duly seconded and carried, an additional place of Physician to Out Patients and Adjunct Assistant Visiting Physician to the Second Division was created, and Dr. Eugene F. DuBois appointed to the position. Upon the further recommendation of the Conference Committee, Dr. Rae W. Whidden was appointed Assistant Physician to Out Patients on the tuberculosis service of the Second Division.

Communications.

Five bids, amounting to \$3,601, were presented from the American Laundry Machinery Company for the installation in the new laundry building of machinery for ironing cuffs and collars, etc., no provision for these having been made in the contract being executed by that firm. It was reported by the General Medical Superintendent that the collar and cuff machines had been omitted from the original specifications through a misunderstanding. After consideration, it was resolved to refer these estimates to the Architects for recommendation.

A communication dated July 5 was presented from R. F. Almire, transmitting contract form and specifications for the construction of a roof ward at Fordham Hospital. It was reported that these had been reviewed by Louis C. Frees, In-

spector of Construction, and it was resolved to approve of these specifications and to authorize that they be forwarded to the Board of Estimate and Apportionment.

A communication dated June 18 was received from McKim, Mead & White, recommending the acceptance of an estimate of the John H. Parker Company, amounting to \$985, for the protection and maintenance of a fire escape on the south side of the Pathological Building, adjoining pavilions I and K. The Architects certified that the price was reasonable and the estimate was accepted.

A communication dated July 16 was presented from the Department of Parks of the Borough of The Bronx, stating that the City had acquired the triangular plot of ground in front of Fordham Hospital for the purpose of converting it into a park, but that it had also been proposed to use it as a site for a fire telegraph station. It was resolved to protest against the use of this plot for any other purpose than that of a park.

A communication dated July 9 was presented from C. E. Knox, Consulting Electrical Engineer, requesting approval of changes at the instance of the Department of Water Supply, Gas and Electricity in the electrical equipment being installed in the new laundry building. These changes were approved.

A resolution adopted by the Board of Aldermen, authorizing the issue of \$1,680 special revenue bonds to meet the wages of vacation relief Engineers and Firemen, was presented.

A resolution adopted by the Board of Aldermen, authorizing the issue of \$600 special revenue bonds to pay the salary of a Laundry Manager at Bellevue Hospital for the remainder of the year, was presented.

The General Medical Superintendent presented a list of special Nurses, who had been authorized at Bellevue Hospital from July 3 to 16, and at Fordham Hospital from June 24 to July 3, and the appointment of these Nurses was approved.

Four applications for leave of absence were received from members of the visiting staff and were approved as follows: Dr. G. L. Broadhead, from August 5 to October 1; Dr. A. A. Moore, from July 19 to 27; Dr. Charles L. Dana, until September 23, and Dr. C. J. Strong, from July 12 to 22.

A communication dated July 17 was presented from Dr. Herman C. H. Herold, resigning his position as Intern on the

Third Division of Bellevue Hospital. This resignation was accepted, to date from June 30, 1912.

A communication dated July 18 was received from the Anderson-Martin Electric Company, requesting an extension of time on their contract for the installation of lighting fixtures at Gouverneur Hospital, and stating that the delay was due to changes made in the fixtures by the Department of Water Supply, Gas and Electricity. Copies of communications from the Department of Water Supply in regard to this were also presented, together with a communication from the Supervising Engineer stating that the work was completed on March 1, 1912. The time for the completion of this contract was extended from January 1 to March 1, 1912.

Unfinished Business.

The Secretary reported that, after informal consultation with the members of the Board, he had requested the Municipal Civil Service Commission to appoint Dr. George O'Hanlon as General Medical Superintendent by exemption from examination or by promotion examination without the presentation of a State certificate of registration. The President reported that he had attended the meeting of the Civil Service Commission and urged favorable action on this request. The action of the President and Secretary was approved.

The President reported that he had requested the Board of Estimate and Apportionment to amend the wording of the resolution appropriating \$35,000 for the construction of thirteen additional balconies on pavilions A and B of the new Bellevue Hospital by omitting the number therefrom. This action was approved. The Commissioner of Public Charities reported that the Board of Aldermen had adjourned without taking action upon his request for revenue bonds for the additional employees required for the operation of the new morgue.

New Business.

The President referred to the treatment of sunstroke in the hospitals of the Department, and to the services rendered by Dr. Simon Baruch in the planning of the Hydrotherapeutic Department of the new Bellevue Hospital. It was resolved to appoint Dr. Simon Baruch as Consulting Hydrotherapist to the four hospitals of the Department.

The President reported that Dr. Ellis V. Ivey, Resident Obstetrician in the Training School for Midwives at Bellevue Hospital, had been killed in a railroad accident on July 4 and that he had conveyed to the family the sympathy of the Trustees, and recommended that a diploma testifying to the appreciation of Dr. Ivey's services, be prepared and sent to the family. The action of the President was approved and the recommendation adopted.

The attention of the Trustees was called to a newspaper article in which was a photograph of Dr. George F. Klemann with the address of Bellevue Hospital. A communication from Dr. Klemann to Dr. Ransom S. Hooker in regard thereto was presented. The General Medical Superintendent reported that he had interviewed Dr. Klemann, who had stated that the treatment, referred to in the article as having been practiced in Bellevue Hospital, had not been tried in any hospital whatever. It was also stated that Dr. Klemann had been delinquent in his attendance in the Out Patient Department, having only been present 43 out of a total of 94 days during the past nine months (exclusive of the period for which he had a leave of absence). It was resolved to request Dr. Klemann to tender his resignation as Assistant Surgeon to Out Patients on the First Division of Bellevue Hospital.

The General Medical Superintendent was directed to submit at the next meeting a report of the number of persons in each hospital who have been patients for over sixty days, together with the reasons for each case. Adjourned.

J. K. PAULDING, Secretary.

Borough of Manhattan.

Bureau of Buildings.

Report of operations for the week ending August 10, 1912: Plans filed for new buildings, 15 (estimated cost, \$6,062,860); plans filed for alterations, 81 (estimated cost, \$284,510); buildings reported as unsafe, 82; other violations of law reported, 218; unsafe building notices issued, 115; violation notices issued, 448; unsafe building cases forwarded for prosecution, 1; violation cases forwarded for prosecution, 4; iron and steel inspections made, 5,652. RUDOLPH P. MILLER, Superintendent.

Changes in Departments, Etc.

DEPARTMENT OF FINANCE.

August 12—Change in this Department: James A. Gray, 511 12th st., Brooklyn, has been reinstated to the position of Bookkeeper, with salary at \$1,200 per annum, in the office of the Auditor of Disbursements, Auditing Bureau, taking effect August 6, 1912.

TENEMENT HOUSE DEPARTMENT.

August 13—Transferred: James J. Magee, 346 E. 143d st., The Bronx, Inspector, salary \$1,200 per annum, to the Department of Health. Said transfer to take effect at the close of business Wednesday, August 14, 1912.

DEPARTMENT OF DOCKS AND FERRIES.

August 14—John DeTemple, Dock Builder, has been absent since January 31, 1912. This absence is construed as a resignation.

The resignation of Martin J. Regan, Laborer, has been accepted.

Patrick Neary, Paver, has been absent since April 26, 1912. This absence is construed as a resignation.

BOARD OF WATER SUPPLY.

August 13—The salaries of Clifford Seaver and William H. Carr, Assistant Engineers, were fixed at the rate of \$1,800 a year, to take effect August 1.

The services of Catherine Barry, Stenographer and Typewriter, emergency, terminated July 31.

The following men reported for duty on the following dates, respectively: Neil N. Payne, 571 Carlton ave., Brooklyn, Inspector (temporary), \$120 and \$130 per month, August 5, City Aqueduct Department; Richard M. McDermott, 4180 Broadway, Rodman (emergency, 15 days), \$960 per annum, August 7, Southern Aqueduct Department; George F. Fay, 222 Spring st., Rodman (emergency, 15 days), \$960 per annum, August 5, Southern Aqueduct Department; Joe Ciarelli, Storm King, N. Y., Laborer (emergency, 5 days), \$2 per diem, August 6, Northern Aqueduct Department; George Freeman, Storm King, N. Y., Laborer (emergency, 5 days), \$2 per diem, August 6, Northern Aqueduct Department; John Mallas, Storm King, N. Y., Laborer (emergency, 5 days), \$2 per diem, August 6, Northern Aqueduct Department; John Phillips, Storm King, N. Y., Laborer (emergency, 5 days), \$2 per diem, August 6, Northern Aqueduct Department; Dennis Spaa, Storm King, N. Y., Laborer (emergency, 5 days), \$2 per diem, August 6, Northern Aqueduct Department.

In accordance with resolution adopted November 29, 1911, the following increases in salaries of Sergeants and Patrolmen on Aqueduct became effective on the respective dates designated: Thomas F. Dawkins, Sergeant on Aqueduct, \$1,350 a year, from August 6, 1912; Thomas D. Abraham, Patrolman on Aqueduct, \$1,050 a year, from August 11, 1912; Edward F. Ambach, Jr., Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Washington G. Baker, Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Michael Caulfield, Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Thomas D. Clapperton, Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Thomas G. Clarke, Patrolman on Aqueduct, \$1,000 a year, from August 15, 1912; Richard C. Dinnean, Patrolman on Aqueduct, \$1,050 a year, from August 11, 1912; Patrick Fitzgerald, Patrolman on Aqueduct, \$1,050 a year, from August 11, 1912; Joseph P. Glennon, Patrolman on Aqueduct, \$1,000 a year, from August 15, 1912; Joseph B. Murphy, Patrolman on Aqueduct, \$1,050 a year, from August 11, 1912; Henry P. Olmstead, Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Dennis J. O'Neill, Patrolman on Aqueduct, \$1,050 a year, from August 12, 1912; Jeremiah J. Palmer, Patrolman on Aqueduct, \$1,000 a year, from August 15, 1912; Walter C. Williams, Patrolman on Aqueduct, \$1,050 a year, from August 11, 1912.

DEPARTMENT OF PARKS.

Boroughs of Manhattan and Richmond. Appointed Temporarily as Climber and Pruner, at \$2.50 per day—August 10, 1912: Edward A. Wendt, 3125 Webster ave.; James C. Sweeney, 287 Park ave., Brooklyn; Daniel J. Devlin, 538 Lorimer st., Brooklyn; Harry Resner, 230 W. 126th st.; Edward Alfano, 90 Navy st., Brooklyn; James F. Lynch, 681 Lincoln place, Brooklyn; August 12, 1912, Michael F. Egan, 163 E. 110th st.; Daniel T. Malone, 90 N. Elliott place, Brooklyn.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Monday, July 15, 1912, at 10.30 a. m.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn, and Thomas W. Whittle, Acting President, Borough of The Bronx.

The Mayor, Hon. William J. Gaynor, presided.

The Chair announced a recess until 3.30 o'clock p. m.

At 3.30 o'clock p. m. the Board reconvened.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Thomas W. Whittle, Acting President, Borough of The Bronx; Maurice E. Connolly, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

FRANCHISE MATTERS.

SOUTH SHORE TRACTION COMPANY; MANHATTAN AND JAMAICA RAILWAY COMPANY.

The public hearing was opened on the form of contract modifying contract, dated May 20, 1909, granting a franchise to the South Shore Traction Company to construct, maintain and operate a street surface railway in the Boroughs of Manhattan and Queens, from the westerly terminal of the Queensboro Bridge to the boundary line between the City and Nassau County by way of the Queensboro Bridge and various streets and avenues in the Borough of Queens.

The hearing was fixed for this day by resolution adopted June 13, 1912.

Affidavits of publication were received from the "New York Times," "New York Press" and the CITY RECORD.

At the meeting of June 13, 1912, a report was received from the Franchise Committee recommending that the Board consent to the assignment of said contract when modified to the Manhattan and Jamaica Railway Company.

John O'Donnell appeared in opposition to the proposed route.

The following appeared in favor of the proposed grant: Arthur Carter Hume, counsel for the company; John Adikes, Thomas F. Dwyer and William Rylance. No one else desiring to be heard, the Chair declared the hearing closed.

The following was offered:

Resolved, That the Board of Estimate and Apportionment hereby grants to the South Shore Traction 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, 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 , 1912, 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 (hereinafter called the Company), party of the second part, witnesseth:

Whereas, On May 20, 1909, a contract was executed by the City granting the right or privilege to the South Shore Traction Company to construct, maintain and operate a street surface railway with the necessary wires and equipment for the purpose of conveying persons and property in the Boroughs of Queens and Manhattan in The City of New York from the westerly terminal of the Queensboro Bridge to the boundary line between the City and Nassau County, by the way of the Queensboro Bridge and various streets and avenues in the Borough of Queens; and

Whereas, A contract dated December 31, 1909, and an agreement dated December 24, 1909, were executed which purported to modify said contract executed May 20, 1909; and

Whereas, On May 2, 1912, the Receivers of the South Shore Traction Company petitioned the Board to have said contract of December 31, 1909, and said agreement of December 24, 1909, declared null and void and of no effect, and that said contract dated May 20, 1909, be amended, first, as to route, and second, in such other respects as the Board deems fit and proper; 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 said contracts of May 20, 1909, and of December 31, 1909, and said agreement of December 24, 1909, are hereby declared by the parties hereto to be null and void and of no effect, and the grant herein contained with the conditions thereof shall in all respects be substituted for and take the place of all the rights and privileges granted by said contracts and agreement.

Sec. 2. 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 street surface railway with the necessary wires and equipment for the purpose of conveying persons and property in the Boroughs of Queens and Manhattan of The City of New York, upon the following routes, to wit:

Beginning at the southeasterly line of the Queensboro bridge plaza, the same being the northwesterly side line of Jackson avenue; thence by double track, in, upon and across Jackson avenue to the viaduct over the Sunnyside Yards of the Long Island Railroad Company (Queens boulevard) or the approach thereto; thence by double track upon and along the viaduct over the Sunnyside Yards of the Long Island Railroad Company (Queens boulevard) and the approaches thereto; to Thomson avenue; thence by double track in and upon Thomson avenue to Hoffman boulevard; thence by double track in and upon Hoffman boulevard to Brooklyn and Jamaica turnpike or Fulton street; thence by double track in and upon Brooklyn and Jamaica turnpike or Fulton street to Rose avenue and by single track to Campion avenue; thence by single track in and upon Rose avenue to Archer place and by single track in and upon Campion avenue to Carl street; thence by single track in and upon Archer place to private property, and by single track in and upon Carl street to private property; thence in and upon private property by single or double track to a point approximately in line with Guilford street if the same were extended; thence by double track in and upon private property approximately in line with Guilford street if the same were extended, and crossing under the tracks of the Long Island Railroad Company to Guilford street; thence by double track in and upon Guilford street to a point between Beaufort avenue and Broadway; thence by double track in and upon private property to and across Liberty avenue to Jay street; thence by double track in and upon Jay street to and across Sylvester avenue; thence by double track in and upon private property to Rockaway turnpike at approximately the point where the same is intersected by Shore avenue; thence by double track in and upon Rockaway turnpike to Pacific street; thence by double track in and upon Pacific street to and across Brooklyn avenue; thence by double track in and upon private property approximately in line with Pacific street if the same were extended, to Vine street; thence by double track in and upon Vine street to State street; thence by double track in and upon State street to Woodland avenue; thence by double track in and upon Woodland avenue to private property; thence by double track in and upon private property approximately on a line with Woodland avenue if the same were extended, to a point approximately in line with Central avenue if the same were extended; thence by double track in and upon private property approximately on a line with Central avenue if the same were extended, to Merrick road; thence by single track across Merrick road to Central avenue; thence by single track in and upon Central avenue and crossing the Montauk Division of the Long Island Railroad to a point where Central avenue inter-

sects the boundary line between the City of New York and the County of Nassau.

Said route between the point in private property approximately in line with Guilford street if the same were extended, and the point where Central avenue is intersected by the boundary line between The City of New York and the County of Nassau, lying within certain streets as shown upon a map commonly known as the "Jamaica Map," which was adopted by the Board of Estimate and Apportionment January 11, 1912, and showing the street system and grades of that portion of the 4th Ward, Borough of Queens, City of New York, bounded by Hillside avenue, Villard avenue, Old Country road, Farmers avenue, Freeport avenue, Rockaway boulevard, Van Wyck avenue and New Haven avenue, to wit: Sutphin road, from a point between the tracks of the Long Island Railroad and Brooklyn and Jamaica turnpike or Fulton street, and crossing under the tracks of the Long Island Railroad to Lambertville avenue; Lambertville avenue, from Sutphin road to Spangler street; Spangler street, from Lambertville avenue to Brinkerhoff avenue; Brinkerhoff avenue, from Spangler street to Smith street; Smith street, from Brinkerhoff avenue to Ulster avenue; Ulster avenue, from Smith street to Westchester avenue; Westchester avenue, from Ulster street to the line dividing The City of New York from the County of Nassau.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said routes.

All of the above described routes are within the Borough of Queens, City of New York, and are, together with turnouts, switches and crossovers, hereby authorized shown upon two maps, each entitled:

"Map showing proposed railway of the South Shore Traction Co. in the Borough of Queens, City of New York, to accompany joint petition dated May 2, 1912, to the Board of Estimate and Apportionment."

—and signed South Shore Traction Co., by Paul T. Brady and Willard V. King, Receivers; Harold B. Weaver, Chief Engineer. Manhattan & Jamaica Railway Co., by A. H. Flint, President, and Harold B. Weaver, 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.

Second—To operate the cars of the Company upon two 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 northwesterly side line of Jackson avenue at the Bridge plaza, in the Borough of Queens, and there connecting with the tracks of the Company above described; thence in and upon said bridge plaza to the easterly approach to the Queensboro Bridge; thence upon and along said bridge approach and across intersecting streets and avenues to the Queensboro Bridge; thence upon and along the Queensboro Bridge to the westerly bridge approach; thence upon and along said westerly bridge approach to the westerly terminus thereof, in the Borough of Manhattan. The said route is more particularly shown upon the map hereinbefore referred to, and is to be operated by the Company as a continuous route in connection with the route hereinbefore described.

Sec. 3. The grant of the right or privilege to construct, maintain and operate the said railway from the Queensboro Bridge plaza, at Jackson avenue, Borough of Queens, to the intersection of Central avenue and the boundary line between the Borough of Queens and the County of Nassau, upon the route hereinbefore described, 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 each street and avenue described in the route of the Company to the construction and operation of said railway, shall be obtained by the Company, and a copy of such consents shall be filed with the Board before construction is commenced on such street or avenue. The consent in writing of the owners of half in value of the property bounded on all streets and avenues to the construction and operation of said railway, shall be obtained by the Company within one year 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 a copy of an order of the Appellate Division of the Supreme Court that said railway ought to be constructed in lieu of such consents.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until May 20, 1934, with the privilege of renewal of said contract for the further period of twenty-five (25) 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 twenty-five (25) 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 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.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any other corporation or corporations or to any individual or individuals a similar right or privilege upon the same or other terms and conditions over the routes hereinbefore described. The Company shall not at any time oppose the construction and operation of any street surface railway by any such other corporation or individual which may receive a franchise therefor from the City which may necessitate the use of any portion of the railway which shall be constructed or operated by the Company pursuant to this contract; and the consent of the Company to the use of any portion of its railway by such corporation or individual shall not be necessary.

Should the City at any time during the term of this contract grant to any other corporation or to any individual the right or privilege to operate a railway upon the tracks of the Company on the route herein described or any portion thereof, then the City shall, within thirty (30) days thereafter, give notice to the Company that such right has been granted, and of the name of the corporation or individual to which such right has been granted.

At the expiration of ninety (90) days after the giving of such notice, such individual or corporation shall have the right to begin the operation of cars upon the tracks of the Company upon the route or any portion thereof over which such corporation or individual may receive a right or privilege, and to use therefor the tracks, equipment, power and all other property of the Company which shall be necessary in the operation of the cars of such corporation or individual upon the tracks of the Company, and shall have the right to continue such operation until this contract or the right to use such property under the terms and conditions of this contract granted said corporation or individual by the City shall expire. Such corporation or individual shall pay to the Company for the right to use such tracks, equipment, power and other property above described, such sum or sums as may be agreed upon in writing by such corporation or individual, and the Company within said ninety (90) days, or in the event that such agreement cannot be reached within said ninety (90) days, such sum or sums as shall be determined by the Public Service Commission of the State of New York, for the First District.

Within thirty (30) days after such determination by the Public Service Commission such new corporation or individual shall file with the said Commission its acceptance or rejection in writing of said determination. In the event of rejection such corporation or individual shall immediately cease the operation of its cars over the tracks of the Company and shall, within thirty (30) days thereafter, pay to said Company for the use of its tracks and equipment already enjoyed a sum equal to the legal interest on such portion of the actual cost of construction of said railway structures and additions and betterments thereto, as the number of cars operated by such corporation or individual shall have borne to the number of cars operated by the company or companies using the same during said period; also a like proportion of the cost of keeping the tracks and electrical equipment in repair; also a like proportion of laying and repairing of pavement, removal of ice and snow, taxes, and all duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, together with the actual cost of the power used for the operation of the cars of such individual or corporation. Provided, however, that such corporation or individual shall not be compelled to pay to the Company any sum as compensation for loss to it due to competition.

Fifth—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 Queens, 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, at any time after the first ten (10) years of this contract, upon giving to the Company one (1) year's notice, may require the Company to operate its railway upon the whole or any portion of its route lying in and northwesterly from the Brooklyn and Jamaica turnpike, or Fulton street; and at any time after the first fifteen (15) years of this contract, upon giving to the Company one year's notice, may require the Company to operate its railway upon the whole or any portion of its route lying southeasterly from the Brooklyn and Jamaica turnpike, or Fulton street, 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 remove its poles, wires and other structures used by it for that purpose, from the streets and avenues of the City.

Sixth—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.

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.

Seventh—The Company shall complete and put in operation that portion of the railway herein authorized from the Manhattan terminal of the Queensboro Bridge to the intersection of the tracks of the Long Island Railroad with Thomson avenue at or near Greenpoint avenue on or before October 31, 1912, from the intersection of the tracks of the Long Island Railroad Company with Thomson avenue to the intersection of Thomson avenue and Broadway on or before December 31, 1912, from the intersection of Thomson avenue and Broadway to the proposed new Long Island Railroad station in the former village of Jamaica on or before March 31, 1913. The Company shall complete and put in operation that portion of its railway herein authorized between the former Village of Jamaica and the city line at Central avenue within six months after notification by the President of the Borough of Queens that he is willing to issue a permit for the construction of tracks on the streets involved.

Upon the failure of the Company to complete the construction and place in operation any of the said portions of the railway on or before the dates or times herein specified, the right herein granted shall cease and determine, and all sums or securities paid to the City, or deposited with the Comptroller, as security for performance by the Company of the terms and conditions of this contract, as herein provided, shall be forfeited to the City without action by the City, provided, however, that the Board may extend the time within which to complete the construction and place the railway in operation as it may deem just and equitable.

Eighth—Said railway shall not cross any railway or railroad other than street surface railways encountered in the route at the grade thereof, but shall be constructed either above or below the grade of such railway or railroads. If any railway or railroad other than street surface railways are operated at the same grade of the streets or avenues in which the Company is hereby authorized to construct a railway at the time the Company constructs such railway, then the Company may construct at its own expense and use a temporary crossing and approaches thereto either upon private property or within the lines of such streets or avenues to be determined by resolution of the Board, and continue to use such temporary crossing until such time as either the grade of such street or avenue or such railway or railroad shall have been changed so that such railway or railroad shall not cross such street or avenue at the grade thereof. When such grade shall have been changed and a permanent crossing shall have been constructed to carry such street or avenue either above or below the grade of such railway or railroad, then the Company shall upon the order of the Board, abandon the above described temporary crossing, and construct its tracks upon such permanent structure as shall be directed by the Board. Any property acquired in fee by the Company for the purpose of the temporary crossing hereinbefore provided for shall be ceded to the City without compensation therefor by the Company, when the same is required by the City for the purpose of widening such street or avenue, upon the removal of the tracks of the Company from such temporary crossing and approaches thereto to the permanent crossing structure.

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 during the term of this contract, or should any such street or avenue be made a boulevard, in which it may be desirable to have the position of the tracks changed, the Company shall, at its own expense, change its tracks to conform with such new grades, lines and positions as shall be directed by the Board or by the official having jurisdiction of such streets, avenues or boulevards, and during the construction of any public improvement upon said street, avenue or boulevard, the Company shall take care of and protect the track at its own expense; all to be done subject to the direction of the City official having jurisdiction.

Should, in the opinion of the President of the Borough of Queens, the present roadway of any of the said streets, avenues or highways be of insufficient width

to accommodate both railway and other vehicular traffic, the Company shall widen such roadway under the direction of the President of the Borough of Queens to a width sufficient to accommodate such traffic; provided, that no roadway shall be widened beyond the total width of the street, avenue or highway.

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 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.

Provided, however, that the Company may, with the approval of the City officials having jurisdiction over such matters, oil that portion of the surface of the streets and avenues, between the tracks, the rails of the tracks and two (2) feet beyond the rails on either side thereof, at least twice each summer season, in such a manner as may be necessary to prevent the rising of dust, and if the Company shall so oil such portions of the streets and avenues then the Company shall not be required to water such streets and avenues as herein provided.

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 President of the Borough of Queens, 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.

Fifteenth—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.

Sixteenth—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 authorized to operate.

Sec. 4. The grant of the right or privilege to operate cars upon two (2) tracks of 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 from the date upon which this contract is signed by the Mayor until May 20, 1919, and may continue for a further term not exceeding in any case fifteen (15) years, which further term may be terminated at the option of the Board at any time during said fifteen (15) years, upon six (6) months' notice by the Board to 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 necessity 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 track 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 furnish and supply a sufficient number of cars (herein called local bridge cars) and commence the operation of same as soon as practicable after this contract is signed by the Mayor, and continue to operate the same during the term of this contract back and forth upon the bridge between the bridge plaza in the Borough of Queens and the bridge approach in the Borough of Manhattan, with such frequency as to provide reasonable accommodations for the traveling public, provided, however, that if the through cars operated by the Company, or the operation of cars across the bridge by any other company, shall in the opinion of the Commissioner of Bridges be sufficient to supply reasonable accommodations for the traveling public, the operation of such local bridge cars shall be discontinued for such period as designated by the Commissioner of Bridges.

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 construc-

tion, 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. 5. The grant of the said rights and privileges to construct, maintain and operate a street surface railway from the Queensboro Bridge plaza, at Jackson avenue, in the Borough of Queens, to the intersection of Central avenue and the boundary line between the Borough of Queens and the County of Nassau, upon the route herebefore described, and to operate cars upon the Queensboro Bridge and the 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 this privilege the following sums of money:

(a) During the first term of five (5) years an annual sum which shall in no case be less than thirty-five hundred dollars (\$3,500) and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of thirty-five hundred dollars (\$3,500).

During the second term of five (5) years 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 (\$7,000).

During the third term of five (5) years an annual sum, which shall in no case be less than twelve thousand dollars (\$12,000), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of twelve thousand dollars (\$12,000).

During the remaining term, ending May 20, 1934, an annual sum which shall in no case be less than fourteen thousand seven hundred dollars (\$14,700), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of fourteen thousand seven hundred dollars (\$14,700).

(b) For the use of the bridge structure and approaches thereto 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.

(c) For the use of the tracks owned by the City upon the bridge and approaches a sum equal to four (4) per cent. per annum upon the valuation of thirty thousand dollars (\$30,000) per mile of single track used, provided, however, that if such tracks are used by any other company or companies, then the Company shall pay only such portion of such 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 compute the sums due the City for the use of such tracks and certify the same to the Comptroller.

(d) For the use of terminal loops and other terminal facilities which are the property of the City a sum equal to four (4) per cent. upon the cost of the tracks in the terminals, and all overhead equipment necessary for the operation of the cars, provided, however, that if such terminal loops and other terminal facilities are used by any other company or companies, then the Company shall pay only such portion of four (4) per cent. per annum upon the cost thereof as shall be proportionate to the use of such facilities by the Company. The Commissioner of Bridges shall compute the sums due the City for the use of such terminal facilities and overhead equipment and certify the same to the Comptroller.

The Company upon the delivery of this contract and before any rights herein conferred are exercised by the Company shall pay to the City the sum of twenty thousand dollars (\$20,000), which sum the City agrees to accept as payment for all sums due the City, pursuant to the said contract of May 20, 1909, from the date thereof, to the date hereof, and is the sum the Company agrees to be due the City pursuant to said contract.

The gross annual receipts mentioned above shall be the gross earnings of the Company from all sources within the limits of the City.

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.

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 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.

Second—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.

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 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.

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 direction 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 rate of fare upon the local bridge cars, or the through cars of the company, entitling a passenger to ride once across the bridge shall not exceed three cents, and the company shall at all times have tickets on sale, one of which shall entitle a passenger to ride across said bridge, and the company shall sell such tickets at the rate of not exceeding three cents for one and five cents for two.

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.

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 service than provided for by it.

Seventh—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.

Eighth—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, as may be determined by the Board. Provided, however, that the Company, during the first five (5) years of this contract, shall not be required to operate its cars between the hours of one (1) o'clock a. m. and five (5) o'clock a. m. each day unless the Board shall determine after a hearing had thereon that public convenience requires the operation of cars during said hours.

Ninth—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.

Tenth—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.

Eleventh—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.

Twelfth—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.

Thirteenth—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 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.

Fourteenth—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.

Fifteenth—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.

Sixteenth—This grant is upon the express condition that the Company shall, before anything is done in exercise of the rights conferred hereby, and at all times thereafter during the term of this contract, have on deposit with the Comptroller of the City the sum of twenty thousand dollars (\$20,000), 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 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, wheel-guards 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 the violation of the provisions relating to those 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 twenty thousand dollars (\$20,000), 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 con-

tract shall affect any other legal rights, remedies or causes of action belonging to the City.

Seventeenth—The Company upon the delivery of this contract and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City a further sum of thirty thousand dollars (\$30,000) either in money or securities, to be approved by him, fifteen thousand dollars (\$15,000) of which shall be returned to the Company only upon the condition that the Company shall have completed the construction of a double track street surface railway and placed the same in operation from the Manhattan terminal of the Queensboro Bridge to the intersection of the tracks of the Long Island Railroad Company with Thomson avenue, at or near Greenpoint avenue, and from said Greenpoint avenue to the intersection of Thomson avenue with Broadway, and from the intersection of Thomson avenue with Broadway to the proposed new Long Island Railroad station in the former Village of Jamaica, on or before the dates herein elsewhere specified for the completion of the construction of those portions of the railway, and the remaining fifteen thousand dollars (\$15,000) shall be returned to the Company only upon the condition that the Company shall have completed the construction of the railway and placed the same in operation from the said proposed new Long Island Railroad station to the intersection of Central avenue and the City line, within the time herein elsewhere specified for the completion of that portion of the railway.

The sum of thirty thousand dollars (\$30,000) provided for in this paragraph is to be in addition to any sum already deposited by the Company with the Comptroller of The City of New York under the provisions of paragraph seventeenth of the contract of May 20, 1909, the respective rights of the City and of the Company in the sum so deposited under said contract being left for future adjustment through judicial proceedings or otherwise.

For the purpose of facilitating the work of the Company in constructing and putting in operation said section of its railway, it is hereby consented that the Company may construct its temporary overhead crossings on Thomson avenue, within the lines of said avenue.

If and when any of such portions of the railway shall be constructed and put in operation at any time within the periods herein specified, a certificate stating that such portion of the railway has been constructed and put in operation shall be prepared by the President of the Company, and delivered to the Board, and the Board shall immediately verify the correctness of such statement, and either accept such statement as correct, or, if it deems it to be incorrect return said certificate to the Company, specifying in writing the respects in which it deems such statement to be incorrect. If such statement or statements, with respect to the portions of the railway hereinabove referred to, which are required to be constructed and placed in operation within specified periods, as a condition of the return of said portions of the said sum of thirty thousand dollars (\$30,000), are filed with the Board within said specified periods and are found by the Board to be correct or are thereafter proven to be correct, the Board shall thereupon adopt a resolution directing the Comptroller to return to the Company the said portions of said thirty thousand dollars (\$30,000), as herein provided. Unless such certificate or certificates are delivered to the Board by the Company and the statement therein contained accepted by said Board as correct or proven by the Company to be correct, then such sum of thirty thousand dollars (\$30,000), or such portion thereof as shall not have already been returned to the Company, as herein provided, shall be forfeited to and become the property of the City.

Eighteenth—Nothing herein contained shall be construed to constitute a waiver of any forfeiture of money which has accrued under the contract between the City and the Company dated May 20, 1909.

Nineteenth—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.

Twentieth—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.

Twenty-first—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. 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,

[CORPORATE SEAL.] By.....Mayor.
Attest:City Clerk.

SOUTH SHORE TRACTION COMPANY,

By.....Receiver.
By.....Receiver.
By.....President.

[SEAL.]
Attest:Secretary.

(Here add acknowledgments.)

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following was offered:

Whereas, The Receivers of the South Shore Traction Company have, in a petition dated May 2, 1912, applied to the Board of Estimate and Apportionment to have declared null and void a certain contract dated December 31, 1909, and a certain agreement dated December 24, 1909, by and between The City of New York and said South Shore Traction Company, and for certain modifications and amendments in the terms and conditions of the contract dated May 20, 1909, between the City and the South Shore Traction Company, granting said Company the right to construct, maintain and operate a street surface railway upon and over the Queensboro Bridge and upon and along various streets and avenues in the Borough of Queens; and

Whereas, The Board has, by resolution this day duly adopted, authorized the execution and delivery by the Mayor of The City of New York of a contract to the South Shore Traction Company, wherein and whereby the said contracts of May 20, 1909, and December 31, 1909, and the said agreement of December 24, 1909, are declared to be null and void and of no effect, and that the grant contained in the contract this day authorized shall in all respects be substituted for and take the place of all the rights and privileges granted by said contracts and agreement; and

Whereas, Said contract this day authorized provides in section 5, subdivision 3, as follows:

"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 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"; and

Whereas, In any by said petition dated May 2, 1912, the Receivers of the South Shore Traction Company did further request the consent of The City of New York, acting by the Board of Estimate and Apportionment, to the assignment and sale of such modified contract to the Manhattan and Jamaica Railway Company, a corporation organized for the express purpose of constructing and placing in operation a railroad upon the route described in the said contract this day authorized to be executed and delivered to the South Shore Traction Company; and

Whereas, Said Manhattan and Jamaica Railway Company did join with the Receivers of the South Shore Traction Company in the making of said petition dated May 2, 1912; now therefore be it

Resolved, That consent be and hereby is given to the South Shore Traction Company to assign, transfer and set over all rights and privileges granted by the said contract this day authorized to be executed and delivered to said South Shore Traction Company, so that the same shall pass to and vest in the said Manhattan and Jamaica Railway Company; and be it further

Resolved, That a copy of these resolutions, certified by the Secretary of this Board under seal, shall be delivered to the South Shore Traction Company, as the instrument under seal required in and by the said contract this day authorized to be executed and delivered to said South Shore Traction Company; and be it further

Resolved, That in the event of the approval of these resolutions by the Mayor they shall not become effective unless and until said contract this day authorized has been executed and delivered to the said South Shore Traction Company.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

J. B. MALATESTA.

In the matter of the consent granted to construct, maintain and use a narrow gauge railroad track from the junction of Boston and White Plains roads across White Plains road and along Astor avenue to Olinville avenue to Britton street, to Bronx boulevard to Burke street, Borough of The Bronx.

This consent was granted by resolution adopted by this Board July 6, 1911, approved by the Mayor July 11, 1911.

The Secretary presented the following:

J. B. Malatesta, Contractor, New York, July 8, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—On July 11, 1911, I received a franchise to operate a contractor's railroad on White Plains avenue, Astor avenue and Olinville avenue, which franchise expired on the 30th day of May, 1912. I have removed the tracks on the line of said streets, and regulated the streets to the satisfaction of the Maintenance Department of the Borough of The Bronx, who have sent you a communication to that effect, and I respectfully request that you order the release of my bond and deposit now in the Comptroller's office. Respectfully yours,

JOHN B. MALATESTA.

The papers were ordered filed.

STANDARD OIL COMPANY; TIDEWATER PIPE COMPANY, LIMITED.

In the matter of the joint application of the Standard Oil Company and the Tidewater Pipe Company, Limited, for permission to construct, maintain and use a tunnel under and across Washington avenue, a tunnel under and across Western avenue, and a tunnel under and across Richmond terrace, in the Third Ward, Borough of Richmond, to contain pipes for the purpose of transporting petroleum oil or its products between the plants of the applicants.

This application was presented to the Board at the meeting of July 11, 1912, and was referred to the Bureau of Franchises.

The Secretary presented the following:

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

The Standard Oil Company and the Tidewater Pipe Company, Limited, jointly respectfully petition your Board for consent to construct and maintain a tunnel under and across Washington avenue, Western avenue and Richmond terrace, in the Third Ward of the Borough of Richmond, at points as shown on prints herewith, said prints also showing the method of construction, etc. The three tunnels are to be used jointly by your petitioners for the purpose of carrying five (5) eight (8) inch iron pipes of the Standard Oil Company and one (1) six (6) inch pipe of the Tidewater Pipe Company, Limited, which lines are to be encased in a ten and five-eighths (10 $\frac{5}{8}$) inch casing pipe, extending the full width of the street or avenue. The five (5) eight (8) inch pipes of the Standard Oil Company and the one (1) six (6) inch pipe of the Tidewater Pipe Company, Limited, are for the purpose of transporting petroleum oil (or its products) of the respective petitioners only, between the separate plants of each of your petitioners, and for their exclusive use and benefit.

Dated July 5, 1912.

STANDARD OIL COMPANY,

By C. T. WHITE, Secretary.

THE TIDEWATER PIPE COMPANY, LIMITED,

By DICKSON Q. BROWN, Secretary.

Bureau of Franchises, July 12, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment:

Sir—The Standard Oil Company and the Tidewater Pipe Company, Limited, have presented a joint petition dated July 5, 1912, to the Board of Estimate and Apportionment for permission to construct, maintain and use three concrete tunnels, each eight feet in width and two feet nine inches in height, outside dimensions, in the Third Ward, in the Borough of Richmond; one under and across Richmond terrace immediately west of Catherine street, a second across Western avenue south of the Staten Island Rapid Transit Railway tracks where they cross said avenue, and the third across Washington avenue at a point about 1,130 feet from Western avenue.

The petition recites that the tunnels are to be used jointly by the petitioners for the purpose of carrying five eight-inch iron pipes of the Standard Oil Company and one six-inch iron pipe of the Tidewater Pipe Company, Limited, used for the purpose of transporting petroleum oil or its products, owned by the respective petitioners, between the separate plants of each of the petitioners, and for their exclusive use and benefit. I am informed the plants connected by the pipe lines are located in New Jersey, and that no oil whatsoever is to be taken from these pipes within the limits of New York.

A copy of the petition with accompanying plan was forwarded to the President of the Borough of Richmond, and to the Commissioner of Water Supply, Gas and Electricity, with a request that examinations be made by the various Bureaus of their Departments having jurisdiction, with a view to ascertaining if there are any objections to the project or any particular conditions necessary to be incorporated in the form of consent heretofore used by the Board for similar privileges. In replies dated respectively July 10 and July 11, 1912, I have been informed that there are no objections to the proposed tunnels and no particular conditions necessary to be incorporated in the form of consent. The reply from the Borough President states that the application was made in its general form upon the advice of his office.

The customary examination by this office revealed that the tunnels crossing Richmond terrace and Western avenue are to connect strips of land ten feet in width on opposite sides of said streets over which the petitioners have a perpetual easement for their pipe lines. The tunnel across Washington avenue will connect properties owned by the Standard Oil Company on opposite sides of said avenue, and the Tidewater Pipe Company, Limited, has a perpetual easement for its pipe line within said lands. There are a few small frame dwellings in the vicinity of the proposed tunnel crossing Richmond terrace. The property in the vicinity of the tunnels crossing Western avenue and Washington avenue is all vacant fields or salt marsh.

As there are no objections to the proposed tunnels, I can see no good reason why the requested permission should not be given, should the Board see fit to do so. In such case I would suggest that consent be granted only during the pleasure of the Board, but in no case to extend beyond a period of ten (10) years from the date of the approval of the consent 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 fifteen hundred dollars be required, said deposit to be in the form of either cash or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

The streets to be crossed by the proposed tunnels are all fifty feet in width. At the rate heretofore fixed by the Board for private tunnels in the City streets to be used for pipes only, viz., four per cent. of the assessed valuation of the area of land occupied by the tunnel, the charge for each tunnel would be less than the minimum of one hundred dollars per annum. The charge for the privilege should, therefore, be one hundred dollars per annum for each tunnel. With the customary increase of five per cent. for the second term of five years, the compensation should, therefore, be during the first term of five years the sum of three hundred dollars per annum, and during the second term of five years the sum of three hundred and fifteen dollars per annum. Such sums should be paid into the City treasury in advance on November 1 of each year.

After consultation with the petitioners, it has been made a condition of the consent, herewith submitted for adoption, that the tunnels shall be completely constructed by November 1, 1912. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Standard Oil Company and the Tide-Water Pipe Company, Ltd., have presented a joint petition, dated July 5, 1912, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of three concrete tunnels, each eight feet in width and two feet nine inches in height, outside dimensions, in the 3d Ward, Borough of Richmond; one under and across Richmond terrace immediately west of Catherine street; the second under and across Western avenue south of the Staten Island Rapid Transit Railway tracks, and the third under and across Washington avenue at a point about 1,130 feet from Western avenue, for the purpose of conveying petroleum or its products between separate plants of the petitioners located in the State of New Jersey; now therefore be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given jointly to the Standard Oil Company and Tide-Water Pipe Company, Ltd., to construct, maintain and use three concrete tunnels, each eight feet in width and two feet nine inches in height, outside dimensions; one tunnel under and across Richmond terrace immediately west of Catherine street connecting with strips of land ten feet in width on opposite sides of the terrace over which the petitioners have perpetual easement for their pipe lines; a second tunnel under and across Western avenue south of the tracks of the Staten Island Rapid Transit Railway Company, connecting with strips of land ten feet in width on opposite sides of said avenue, over which strips the petitioners have perpetual easements for their pipe lines, and a third tunnel under and across Washington avenue at a point about 1,130 feet from Western avenue, connecting with properties owned by the Standard Oil Company on opposite sides of said avenue, and over which property the Tide-Water Pipe Company, Ltd., has perpetual easement for its pipe line; the said tunnels to be used to contain five eight-inch iron pipes of the Standard Oil Company and one six-inch iron pipe of the Tide-Water Pipe Company, Ltd., incased in larger pipes for the purpose of transporting petroleum oil or its products between the separate plants of each of the petitioners located in the State of New Jersey, for the sole and exclusive use of the petitioners and for no other purpose, all as shown on the plan accompanying the petition and entitled:

"Plan showing location and manner of construction of proposed tunnels under and across Washington avenue, Western avenue, Richmond terrace, Borough of Richmond, to accompany joint application Dated July 5, 1912, of Standard Oil Company and The Tide-Water Pipe Company, Ltd., to the Board of Estimate and Apportionment, City of New York. Standard Oil Company, by C. T. White, Secretary; Tide-Water Pipe Company, Ltd., by Dickson Q. Brown, Secretary."

—a copy of which is attached hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee 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 sum of three hundred dollars per annum, and during the second term of five years the sum of three hundred and fifteen dollars per annum. Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a 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.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent 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 grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly:

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, 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 its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

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

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed 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 the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of

the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized 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. It 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 said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, 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 this 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. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of fifteen hundred dollars (\$1,500), 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 removal of the structure hereby authorized. 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 the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) 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 (30) 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 fifteen hundred dollars (\$1,500), and in default of the payment thereof, the consent hereby given may be cancelled 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 proceeding 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.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work 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.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before November 1, 1912, 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.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

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

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—10.

NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY.

In the matter of the application of the New York Central and Hudson River Railroad Company for permission to construct, maintain and use a track across Exterior street south of 225th street, at the grade of said street, across Exterior street north of 225th street at grade, across Broadway where it crosses the bed of the Harlem River and Spuyten Duyvil Creek underneath the bridge carrying Broadway over said creek or river, and across Jasper place, Borough of The Bronx, for the purpose of furnishing facilities for the filling in of said creek or river.

This application was presented to the Board at the meeting of July 11, 1912, and was referred to the Bureau of Franchises.

The Secretary presented the following:

New York Central and Hudson River Railroad Company, Law Department, Grand Central Terminal, New York, June 24, 1912.

To the Board of Estimate and Apportionment of The City of New York, 277 Broadway, New York City:

Gentlemen—Under date of April 25, 1912, your Honorable Board passed a resolution upon the application of Emily M. Romer consenting to the filling in of the Spuyten Duyvil Creek and to the replacing of the fixed bridges on the line of the New York Central and Hudson River Railroad with embankment or other fixed structures in the Boroughs of Manhattan and The Bronx.

In order to carry out this consent and to complete this filling it is necessary to construct a tram track across Exterior street southerly of 225th street at the grade of said street, a tram track across Exterior street northerly of 225th street at the grade of said street, a tram track across Broadway where the same crosses the bed of the Harlem River or Spuyten Duyvil Creek underneath the bridge carrying Broadway over said creek or river, and a tram track across Jasper place, a street shown upon the City maps, but not as yet constructed, and permission of your Honorable Board is respectfully requested for the construction of said tram tracks across the above-mentioned streets for the purpose of furnishing facilities for the filling in of said creek or river. Any and all of such reasonable conditions as may be imposed by your Honorable Board will be cheerfully complied with.

This filling in is in accordance with the wishes not only of the property owners interested, but of the City authorities, as evidenced specifically by its construction of the approach to the 225th street bridge.

Plans showing the location and the manner of constructing said tram tracks are enclosed herewith. Respectfully yours,

THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD CO.,
By IRA A. PLACE, Vice-President.

Bureau of Franchises, July 13, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—The New York Central and Hudson River Railroad Company has presented a petition dated June 24, 1912, to the Board of Estimate and Apportionment for permission to construct, maintain and use a railroad track across Exterior street, south of 225th street, at grade, and across Exterior street, north of 225th street, at grade, and across Broadway where it crosses the bed of Spuyten Duyvil Creek underneath the bridge carrying Broadway over said creek, to and across Jasper place, all in the Borough of The Bronx, for the purpose of filling in Spuyten Duyvil Creek in accordance with a resolution adopted by the Board of Estimate and Apportionment on April 25, 1912, consenting to the filling in of said creek and to the replacing of the fixed bridges on the line of the New York Central and Hudson River Railroad, with embankment or other fixed structures.

A copy of the petition with accompanying plan was forwarded to the President of the Borough of The Bronx and to the Commissioner of Water Supply, Gas and Electricity, with a request that examinations be made by the various bureaus of their Departments having jurisdiction, with a view to ascertaining if there are any objections to the project or any particular conditions necessary to be incorporated in the

form of consent heretofore used by the Board for similar privileges. In replies, dated respectively July 10 and July 9, 1912, I have been informed that there are no objections to the project, and the conditions embodied in the form of revocable consent used by the Board will sufficiently protect the City. The reply from the Borough President states that the title to Jasper place is not in the City, and therefore consent to cross it cannot be granted. It is further stated that the City will derive a direct benefit from the filling in of the creek, as it is part owner of some of the lands to be filled in, and the unsanitary condition, due to stagnant water, will be relieved.

Exterior street, where the tracks are proposed to be placed, is already provided with a sewer, but the street is far below the established grade, and in its present condition cannot be used in any manner by the public. The track passing under Broadway will, of course, not interfere with the travel on that street in any manner.

The proposed track will permit of the filling in of Spuyten Duyvil Creek, and, to my mind, the closing of the creek will materially benefit this entire locality. The westerly portion of the creek has already been filled in by the petitioner. The tidal current through the creek has been interrupted by said filling, and the portion now remaining unfilled is not thoroughly cleaned by the ordinary tide.

As there are no objections to the project, and as Exterior street where crossed by the track is far below the established grade and the track across Broadway passes under the surface thereof, the project cannot cause any inconvenience to the traveling public. I can therefore see no reason why the requested permission should not be given, should the Board see fit to do so. In such case I would suggest that consent be granted only during the pleasure of the Board, but in no case to extend beyond a period of two (2) years from the date of the approval of the consent by the Mayor, within which time the Railroad Company has informed me the filling will be completed. It should also be made a condition of the consent that a security deposit in the sum of five hundred dollars be required, said deposit to be in the form of either cash or securities, to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

Each proposed track within the lines of Exterior street will be 120 feet in length, and the track crossing underneath Broadway will also be 120 feet in length, making a total length of 360 feet. Jasper place, I am informed, is not owned by the City, and the portion to be crossed is not physically opened. At the rate heretofore used by the Board on granting revocable consents for tracks across City streets—viz., four per cent. of the assessed valuation of the area of street occupied by the track, estimating that a single track occupies a width of ten feet—the charge for each track would be less than the minimum of \$100. The charge should, therefore, be the sum of one hundred dollars (\$100) per annum for each of the two crossings on Exterior street and the crossing on Broadway, making a total of three hundred dollars (\$300) per annum for the privilege.

The customary form of resolution granting the consent is herewith submitted for adoption. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The New York Central and Hudson River Railroad Company presented a petition dated June 24, 1912, to the Board of Estimate and Apportionment for permission to construct, maintain and operate temporarily a railroad track across Exterior street south of 225th street at grade, and across Exterior street north of 225th street at grade, and across Broadway, passing under the bridge carrying said Broadway across Spuyten Duyvil Creek, and across Jasper place at Spuyten Duyvil Creek, all in the Borough of The Bronx, for the purpose of conveying material for filling in Spuyten Duyvil Creek, in accordance with the resolution adopted by the Board of Estimate and Apportionment on April 25, 1912, consenting to the filling in of said creek; 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 New York Central and Hudson River Railroad Company, a domestic corporation, to construct, maintain and operate a temporary railroad track across Exterior street immediately south of 225th street at grade, and across Exterior street immediately north of 225th street at grade, and across Broadway, passing under the bridge carrying Broadway across said Spuyten Duyvil Creek, for the purpose of conveying material for the filling in of Spuyten Duyvil Creek; the location of such track to be as shown upon the plan accompanying the petition, and entitled:

"Plan Showing Location of Prop. Tram Track Crossing To Be Constructed Across Exterior St. (Twice) at Grade, Broadway Under-Crossing; & Jasper Place at Grade As Laid Out on N. Y. City Maps, in the Borough of The Bronx. To Accompany Application Dated _____ of the N. Y. C. & H. R. R. R. To the Board of Estimate and Apportionment, City of New York."—and signed N. Y. C. & H. R. R. Co., by Alex. S. Lyman, General Attorney, a copy of which is attached hereto, and made a part hereof upon 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 said grantee, its successors or assigns, but in no case shall said consent extend beyond a term of two years from the date of the approval of this consent by the Mayor, and thereupon all rights of the said New York Central and Hudson River Railroad Company, its successors or assigns, in and upon said streets by virtue of this consent shall cease and determine.

2. The said New York Central and Hudson River Railroad Company, its successors or assigns, shall pay into the treasury of The City of New York as compensation for the privilege hereby granted, the sum of three hundred dollars (\$300) per annum.

Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of the consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year. Such compensation 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 by any ordinance of The City of New York, or by any law of the State of New York.

3. 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 spur tracks and all appurtenances thereto to be removed, and all those portions of said streets affected by this consent 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 tracks to be constructed by the said grantee under this consent shall not be required to be removed, it is agreed that the said tracks and appurtenances shall become the property of The City of New York.

4. The consent hereby given is for the exclusive use of said grantee, and shall not be assigned either in whole or in part or leased or sublet in any manner, nor shall title, 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. Said grantee shall pay the entire cost of:

- The construction, maintenance and removal of said track.
- The protection of all surface and subsurface structures which shall in any way be disturbed by the construction or removal of the said track.
- All changes in the sewer, water pipes or other substructures made necessary by the construction or removal of the said track, including the laying or relaying of pipes, conduits, sewers or other structures.
- The replacing or restoring of the pavement in said street which may be disturbed during the construction or removal of said track.
- Each and every item of the increased cost of any future substructures caused by the presence of said track.
- The inspection of all work during the construction or removal of the track, as herein provided, which may be required by the President of the Borough of The Bronx and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction shall be begun, 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 the track and the mode of protection of all subsurface structures required by the installation of the track.

7. Said spur track shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York, who have jurisdiction in such matters under the Charter of The City of New York.

8. Said grantee, its successors or assigns shall at all times keep the street between the rails of the track and for a distance of two feet beyond the rails on either side thereof free and clear from ice and snow.

9. Said grantee, its successors or assigns shall keep in permanent repair the portion of the surface of the street between the rails of the track and for a distance of two feet on either side thereof, under the supervision of the proper local authorities, and whenever required by them to do so, and in such manner as they may prescribe, and The City of New York shall have the right to change the material or character of the pavement of the street, and in that event the said grantee, its successors or assigns shall be bound to replace such pavement in the manner directed by the proper City officials, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

10. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said streets.

11. Said grantee, its successors or assigns shall be liable for all damages to persons or property, including the street and subsurface structures therein by reason of the construction, operation or maintenance of said spur track, and it is made a condition of this consent that The City of New York assumes no liability to either persons or property on account of this consent.

12. This consent is granted upon the further and express condition that the provisions of the Railroad Law, applicable thereto, and all laws or ordinances now in force of which may hereafter be adopted shall be strictly complied with.

13. This consent is upon the express condition that the said grantee within sixty (60) 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 five hundred dollars (\$500) either in money or 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 charge for the privilege and the repairs of the substructures and street pavement. In case of default in the performance by said grantee of any of such terms or conditions. The City of New York shall have the right to cause the work to be done, and the materials to be furnished for making the necessary changes, or repairs, after ten (10) days' notice in writing, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in payment of the charge for the privilege, shall collect the same with interest from such fund after ten (10) days' notice in writing to the said grantee. In case of any draft so made upon the security fund, the said grantee shall, upon sixty (60) 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 five hundred dollars (\$500), 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 The Bronx and to the Commissioner of Water Supply, Gas and Electricity in writing of its intention to begin the work hereby authorized at least forty-eight hours before such work 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 date.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained, and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

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

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

RAPID TRANSIT RAILWAY—PARK PLACE, WILLIAM AND CLARK STREET ROUTE.

A communication was received from the Mayor's office, returning duly approved by his Honor the Mayor on July 10, 1912, resolution adopted by this Board June 13, 1912, approving the plans and conclusions and consenting to the construction of an additional rapid transit railway known as Park Place, William and Clark Street Route.

Which was ordered filed.

TRUSTEES COLUMBIA UNIVERSITY.

An application was received from the Trustees Columbia University for permission to construct, maintain and operate a tunnel under and across 116th street, Borough of Manhattan, at a point about 52 feet east of Broadway, for the purpose of conducting water, steam and electricity between the power plant and the University buildings.

Which was referred to the Bureau of Franchises.

NEW YORK CONNECTING RAILROAD COMPANY.

A communication was received from the Public Service Commission for the First District transmitting and serving upon the City certified copy of resolution adopted by said Commission directing a hearing on July 16, 1912, on the application of the New York Connecting Railroad Company for approval of changes of its routes.

Which was ordered filed, and the Engineer, Bureau of Franchises, instructed to attend hearing.

ICE MANUFACTURING COMPANY; DEALERS HYGIENE ICE COMPANY.

A joint application was received from the Ice Manufacturing Company and the Dealers Hygiene Ice Company for the consent to the transfer to the Ice Manufacturing Company of the right granted the Dealers Hygiene Ice Company by resolution adopted by the Board of Aldermen April 15, 1902, which became effective April 29, 1902, to construct, maintain and use a suction pipe for the purpose of conducting salt water from the Hudson River under and across 12th avenue, between 49th and 50th streets, Borough of Manhattan, to the property of the said Dealers Hygiene Ice Company at the northeast corner of 12th avenue and 49th street, as the Ice Manufacturing Company has succeeded to the rights and properties of the Dealers Hygiene Ice Company.

Which was referred to the Bureau of Franchises.

BROOKLYN, QUEENS COUNTY AND SUBURBAN RAILROAD COMPANY.

In the matter of the application of the Brooklyn, Queens County and Suburban Railroad Company for a franchise to construct, maintain and operate a street surface railway upon and along Metropolitan avenue, from Dry Harbor road to Jamaica Plank road, Borough of Queens.

At the meeting of May 23, 1912, a report was received from the Franchise Committee stating the form of contract used by the Board in similar grants and which has received the approval of the Corporation Counsel should govern the proposed grant. A copy of the report was forwarded to the Company with the request that it advise the Board of its intentions in the matter.

The Secretary presented the following:

Brooklyn, Queens County and Suburban Railroad Company, 85 Clinton Street, Brooklyn, N. Y., Office of the President, July 11, 1912.
To the Honorable Board of Estimate and Apportionment, 277 Broadway, Borough of Manhattan:

Gentlemen—Your Secretary has furnished us with a copy of the report which the Franchise Committee presented to the Board on May 23 on the petition of the Brooklyn, Queens County and Suburban Railroad Company for a franchise to construct, maintain and operate a street surface railway upon and along Metropolitan avenue, from Dry Harbor road to Jamaica Plank road, in the Borough of Queens.

This application has been pending now for nearly five years. It was made not of our own desire, because we saw no profit in the operation of such an extension, but upon the earnest and persistent request of property owners and citizens of Jamaica. We realized that it was our duty, if not involving too great a sacrifice, to supply means of transit in that locality which could not be so satisfactorily furnished by any other company.

We agreed at one time with the Board of Estimate upon the form of franchise, but before final action was taken thereon the personnel of the Board changed and heavier burdens have been proposed as the condition of the grant of the franchise.

Before discussing these proposed additional burdens, let me call your attention to the fact that the line, which it is proposed to extend, has been operated since about the year 1867, and has never been a profitable railroad. In 1893 the company which owned it was absorbed into a larger railroad organization, namely, the Brooklyn, Queens County and Suburban Railroad Company, and since that merger the deficits have been borne by the more successful operation of other lines. The property was sold under foreclosure three different times. Under these circumstances there is not much hope that for many years to come, and with a longer haul for the same 5-cent fare, there would be any profit in the operation of an extension aggregating about 16,000 feet of double track.

The principal provisions of the form of contract submitted to your Board under date of December 3, 1910, to which we object, are the following:

1. **Cash Compensation**—The report asks the company to pay for the privilege a lump sum of \$5,000 in cash, and yearly during the term of the franchise 3 per cent. of the gross annual receipts for the first five years, and 5 per cent. thereafter, the minimum payment of each year being specified in the contract. It is further provided, contrary to the principle and letter of section 48 of the Tax Law, that any and all of these annual payments shall be considered in the nature of a tax, but shall be additional to any taxes now or hereafter required to be paid by an ordinance of the City or resolution of the Board of any law of the State of New York. We do not object to the payments of 3 and 5 per cent. of the gross receipts, not because we do not regard such payments as excessive, but because they are fixed by the Railroad Law and cannot be modified, except by a change in that law. We do object, however, to the insertion in the franchise of an arbitrary minimum sum which may be in excess of the actual percentage. We do also object, and most strenuously, to the provision that these payments should not be credited upon the special franchise tax which is levied for the enjoyment of such privilege. The purpose of the enactment of the special franchise tax law was to tax not only the tangible property constituting railroads in public streets and places, but also the intangible right to enjoy such privilege, and in order to avoid double taxation and upon the recommendation of Governor Roosevelt it was provided in the law that where other payments were required in the nature of a tax for the enjoyment of the franchise, the amounts thus paid should be credited upon the special franchise tax, and the Court of Appeals has held that the payment of a percentage of the gross earnings, such as is proposed in this form of contract, is, under the law, properly to be credited to the tax. Any other assumption would not only be unfair, but would be double taxation. We hold, therefore, that inasmuch as the State assesses at its full value every special franchise and puts property of that character upon the same basis as real estate, the property bears its full share of public burden and should not be taxed again.

The initial payment of \$5,000 in cash is far beyond the value of the franchise, and if any sum whatever is required we think this sum should be a nominal one, of say \$100.

2. **The Use of Tracks by Other Companies**—Your proposed contract leaves the Board free to grant a franchise over the same highway to other corporations, and authorizes such other corporations to use the tracks which we construct and pay for, but does not compel the other corporations to pay any part of the principal of the cost. Whatever may be conceded as to other streets for which franchises may be sought, it is quite clear that there will not be, during the term of this proposed franchise, any such margin of profit in the operation of cars thereover as will justify independent service by two companies, but it would be extremely unjustifiable, from a business point of view, that having constructed at large expense these tracks and being obliged under the rules of the Public Service Commission to amortize the cost thereof during the term of the franchise, for us to accept a condition which would permit other companies to use these tracks without bearing a proportionate part of their cost.

3. **Rate of Fare**—The contract fixes the rate of fare as five cents not only over this franchise but over it and every other line possessed by the company. The Court of Appeals has sustained the company's right to charge more than five cents on its Jamaica avenue line and we think we ought not to be asked to waive the right thus established by the courts as a condition for getting this new franchise of questionable value. While we are not exercising the right to charge a greater fare than five cents and have no such intention, we would not be justified in waiving our legal right to exact additional fare on other lines should conditions require it.

4. **Watering of Streets**—As an additional burden the franchise compels the company to keep the entire width of the street watered whenever the temperature is above 35 degrees Fahrenheit. Inasmuch as electric operation produces no dust, this is, we think, an unreasonable tax upon the company. The watering of streets is a municipal duty, but, if car operation created the condition which made the discharge of this municipal duty necessary, there might be a reason for the requirement. This portion of Metropolitan avenue, however, is now mostly a country highway with no paving, except that which the company would install between its tracks and two feet outside thereof. The remainder of the thoroughfare, until improved, will continually be a source of dust in dry weather. If the construction of the railroad would have the effect, as we believe it would, of stimulating building operations, the vehicular traffic on the street would be for some time largely that of contractors' wagons, which of themselves produce a dusty thoroughfare. Moreover, it is notorious that automobiles stir up more dust than trolley cars, and yet it is not seriously suggested that automobile owners should contribute to the watering of streets.

5. **Forfeiture**—Although provision is made for cash penalties and for termination of the franchise in case of breach of the contract or failure to comply with the conditions, the proposed form of franchise further permits the Board of Estimate, in case of any violation, breach or failure, and on ten days' notice to the company, to take possession of and title to the property. We have no idea that such a power would be exercised arbitrarily, and certainly it would not be by the present Board of Estimate, but the arbitrary power should not, in our judgment, be lodged with the Board, and in any event opportunity should be given to the company to make good the default, and the company should have the right to review the action of the Board in the courts.

6. **Security for Performance**—The proposed contract requires the deposit with the Comptroller of The City of New York of the sum of \$10,000, either in money or securities, as security for the performance by the company of all the terms and conditions of the contract. This provision necessarily ties up \$10,000 of capital for twenty-five years, which might better be devoted to transit improvements. Considering the nature of the franchise, the amount is certainly excessive.

There are minor provisions of the proposed contract which we think are unnecessarily severe, but the objections above stated are the principal reasons why we cannot accept it.

The situation is a simple one. The Company, upon the nearly unanimous request of citizens interested, has made application for a franchise, which, judging from the experience of the past, will not be profitable for at least several years and will never yield an unreasonable profit, if any. Nevertheless, it must bear whatever losses may be incurred. The City, on the other hand, under the terms of the franchise as proposed by us to be modified, will have every reasonable jurisdiction and power, will receive a substantial compensation annually for the privilege, and by permitting the construction of the line will not only greatly enhance property values along the route, and not only extend liberal benefit of cheap transit to its people, but will also get, without cost to the City, the pavement of that large portion of the highway which will be occupied by our tracks.

If these considerations are not sufficient, in the judgment of the Board, for the grant of the franchise upon the terms outlined we must bow to its judgment and will be satisfied with its decision. We have stated the questions at issue fully, however, for the information both of the Board and of the property owners and civic associations desiring the construction of this extension. Respectfully submitted,

BROOKLYN, QUEENS COUNTY AND SUBURBAN RAILROAD COMPANY, by BERNARD GALLAGHER, President.

Which was referred to the Franchise Committee.

THE STATEN ISLAND RAILWAY COMPANY.

In the matter of the application of the Staten Island Railway Company for a franchise to construct, maintain and operate one additional standard gauge rail-

road track over and across Huguenot avenue and one additional standard gauge railroad track over and across Amboy road, near Huguenot avenue, in the 5th Ward, Borough of Richmond.

This application was presented to the Board at the meeting of July 11, 1912, and by resolution duly adopted, September 19, 1912, was fixed as the date for hearing.

The Secretary presented the following:

July 12, 1912.

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

Gentlemen—I hereby withdraw petition dated June 28, 1912, of The Staten Island Railway Company for franchise rights for one additional standard gauge railroad track over and across Huguenot avenue and one over and across Amboy avenue near Huguenot avenue, in the 5th Ward, Borough of Richmond.

By resolution adopted by your Board July 11, 1912, this petition was set down for hearing on September 19, 1912. I would request that the advertising for the hearing be not proceeded with, as it is my intention at the first meeting in September to submit a petition for the right to construct the tracks hereinabove mentioned and certain additional tracks. Respectfully,

THE STATEN ISLAND RAILWAY COMPANY,

By C. C. F. BENT, Vice-President.

The following was offered:

Whereas, The Staten Island Railway Company, in a petition dated June 28, 1912, applied to this Board for the right or franchise to construct one additional standard gauge railroad track over and across Huguenot avenue and over and across Amboy road, near Huguenot avenue, in the 5th Ward, Borough of Richmond; and

Whereas, By resolution adopted at the meeting of this Board held July 11, 1912, September 19, 1912, was fixed as the date for the preliminary public hearing upon said petition; and

Whereas, The Staten Island Railway Company has, in a communication dated July 12, 1912, withdrawn said petition dated June 28, 1912; now therefore be it

Resolved, That said resolution adopted by this Board on July 11, 1912, fixing September 19, 1912 as the date for the preliminary public hearing upon said petition be and the same is hereby rescinded.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

JOHN C. RODGERS.

In the matter of the application of John C. Rodgers for permission to construct, maintain and use a temporary railroad track upon and along Leland avenue, from Gleason to Ludlow avenues, Borough of The Bronx.

This petition was presented to the Board at the meeting of June 6, 1912, and was referred to the Bureau of Franchises.

The Secretary presented the following:

John C. Rodgers, Contractor, 271 West 125th st., New York, July 12, 1912.

Honorable Board of Estimate and Apportionment, Bureau of Franchises, 277 Broadway, City:

Gentlemen—I hereby respectfully request permission to withdraw my application for temporary railroad track on Leland avenue, from Gleason to Ludlow avenue, said application being dated June 3, as I find I can get along without it.

Thanking you for your courtesy, I remain, very truly yours,

J. C. RODGERS, JR.

The papers were ordered filed.

NEW YORK AND QUEENS COUNTY RAILWAY COMPANY.

In the matter of the petition for a franchise to construct, maintain and operate a second or additional track on certain portions of its College Point-Flushing and Flushing-Jamaica Lines, Borough of Queens.

The President of the Board of Aldermen reported on behalf of the Franchise Committee that while said Committee had offered various concessions in the usual form of contract governing franchises, the Company has declined to accept any contract which contains the usual tax clause.

The following appeared in favor of the proposed grant.

Arthur G. Peacock, Counsel for the Company; W. J. Posthauen, E. P. Stratton, R. H. Williams, E. A. Des Marets.

Action was deferred until the meeting of September 19, 1912.

MANHATTAN BRIDGE THREE-CENT LINE.

In the matter of the franchise granted the Manhattan Bridge Three-Cent Line to construct, maintain and operate a street surface railway upon and along Desbrosses, Vestry, Washington, Greenwich and Canal streets, Borough of Manhattan, to and across the Manhattan Bridge and upon and along the Flatbush Avenue Extension and other streets and avenues in the Borough of Brooklyn, from the Desbrosses Street Ferry, Borough of Manhattan, to the Long Island Railroad Depot, Borough of Brooklyn.

This franchise was granted by resolution adopted by this Board June 20, 1912, approved by the Mayor June 21, 1912.

The Secretary presented the following:

Bureau of Franchises, July 13, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment: Sir—By resolution adopted by the Board of Estimate and Apportionment June 20, 1912, approved by the Mayor June 21, 1912, the Manhattan Bridge Three-Cent Line was granted a franchise to construct, maintain and operate a street surface railway upon and along Desbrosses, Vestry, Washington, Greenwich and Canal streets, Borough of Manhattan, to and across the Manhattan Bridge and upon and along the Flatbush Avenue Extension and other streets in the Borough of Brooklyn, from the Desbrosses Street Ferry, Borough of Manhattan to the Long Island Railroad Depot, Borough of Brooklyn.

The contract as authorized by said resolution was executed by the Mayor, City Clerk, Vice-President and the Secretary of the Railroad Company July 10, 1912, and bears said date.

The original contract has been placed on file and the duplicate original forwarded to the Company.

It is recommended that the papers be filed.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

Which was ordered filed.

EDISON ELECTRIC ILLUMINATING COMPANY OF BROOKLYN.

The Secretary presented the following:

Department of Finance City of New York, Bureau of Municipal Investigation and Statistics, July 8, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 11, 1912, Mr. John J. Gordon, representing a Committee of Taxpayers of the 30th Ward, Brooklyn, addressed a letter to me in which he stated that the Department of Water Supply, Gas and Electricity was continuing illegally to issue permits for the erection of poles and wires, thereby showing gross incompetency or dishonesty.

Before that time a committee of the South Side Board of Trade of Brooklyn called on me and urged me, as a member of the Board of Estimate and Apportionment, to have the Board take some action on this matter to force the Corporation Counsel to have the pending injunction proceedings against the Board brought to a trial.

At the instance of Mr. Gordon and his committee, I made an investigation of the matter in order to report to this Board. The Board of Estimate and Apportionment is a defendant in the action brought by the Edison Electric Illuminating Co. of Brooklyn, and Amsterdam Electric Light, Heat and Power Co. This is the action which Mr. Gordon's committee wants to have settled at once by the courts. In view of the interest of this Board in the proceedings, I believe that the facts should be made a part of the records of the Board.

The circumstances are such that I doubt the ability of the Board to hasten the settlement of the case, and therefore I make no recommendation other than that a copy of this report be sent to the South Side Board of Trade so the members of that organization may know the progress that has been made.

The complaint made by Mr. Gordon that the Department of Water Supply, Gas and Electricity "illegally" continues to issue permits for the erection of poles and wires in the 30th Ward is not borne out by the facts.

It is true that the Department of Water Supply, Gas and Electricity is continuing to issue permits for the erection of poles and wires in the 30th Ward, but this is done with the full consent of the Corporation Counsel, and in a manner that appears to be legal. The permits are in accordance with a form devised and approved by the Corporation Counsel. A part of this permit is a stipulation by the Edison Electric Illuminating Company that it will remove all construction work at its own expense and place the street in the same condition as it was before the work was done in the event the courts should decide against the company.

The stipulation of the Edison Electric Illuminating Company is attached to and made a part of the permit. That stipulation is as follows:

Whereas, A question has been raised as to the validity of the alleged franchise of the Edison Electric Illuminating Company of Brooklyn to operate in the 30th Ward of Brooklyn, this permit is issued and received with the express understanding and agreement as follows:

1. It is revocable at any time at the will of the Commissioner of Water Supply, Gas and Electricity.

2. It shall not be deemed in any way to validate or recognize the claim of said Company to an existing franchise or right to operate in the 30th Ward of Brooklyn.

3. It is assumed and received without prejudice to the rights of either party in any pending or further litigation regarding said franchise rights.

4. In the event that it shall be finally adjudicated that the said Company does not possess a franchise to operate in said 30th Ward, the said Company agrees, at its own cost and expense, immediately to remove all construction work under this permit from the streets and to place the street in the same condition as it formerly was before such work was done; and upon its failure so to do, after thirty days' notice from the Borough President, the said Borough President may remove such construction work and restore said streets to their former condition and collect the cost and expense thereof from said Company.

EDISON ELECTRIC ILLUMINATING COMPANY OF BROOKLYN.

The President of the Borough of Brooklyn also signs the same permit as that signed by the Commissioner of Water Supply, Gas and Electricity.

The charge of illegality made by Mr. Gordon in his letter appears to be absolutely unjustified. The Corporation Counsel, as legal adviser to the City, has advised the Commissioner of Water Supply, Gas and Electricity and the President of the Borough of Brooklyn to continue to issue these permits and has devised a form of stipulation made by the Edison Electric Illuminating Company.

The controversy between the City and the Edison Electric Illuminating Company has continued for a considerable period. There have been numerous delays in bringing the case to trial. I am informed by the Corporation Counsel's office that the Corporation Counsel has made every effort to force the case to an early trial, but that counsel to the Edison Company has repeatedly submitted excuses which the court considered sufficient to justify postponement.

The case was on the calendar, Special Term, Part 3, New York County, some time ago when Justice McCall was sitting there. It could not be heard in that month and it followed him to another part. It came up before him on Monday, April 15.

On Wednesday, April 17, Justice McCall summoned Assistant Corporation Counsel Burr and Judge Hatch to his chambers and informed them that before proceeding with the trial he wanted to satisfy his mind concerning his relation to the Edison Company. He asked if the Kings County Electric Light and Power Company was involved in the proceeding before him. Mr. Burr informed him that the Kings County Electric Light and Power Company controlled the Edison Electric Illuminating Company and other subsidiary and auxiliary companies. Justice McCall then stated that he could not try the case as he was a stockholder in the Kings County Electric Light and Power Company. Under the circumstances he declined to have the case heard before him.

Justice McCall went to see another Justice and tried to prevail upon him to try the case in order that there might be no further delay. The other Justice was very busy with other cases and could not take up the case.

Justice McCall promised to use every effort to have the case put first on the calendar for the May Term in Special Term, Part 3. Justice Guy sat in that term in May.

On April 21, the Corporation Counsel and the counsel of the lighting companies had a conference with a view to taking the case from the court to have it heard before a Special Referee. The stated reason for this was that the case was so involved and would require so much time for a proper understanding of all the facts that the Corporation Counsel felt it would receive too hurried consideration in court. He suggested that a referee be appointed so that the matter could be considered in all its details. The case involves the question of just how much work was done by each person, firm or company, that received a franchise or assent in meeting the requirements of such franchise or assent.

The Corporation Counsel's suggestion of a referee was adopted and Mr. DeLancey Nicoll was appointed referee in the middle of May.

Two hearings have been held by Mr. Nicoll. The hearings have been adjourned until September 15.

The question for the courts to settle is whether or not the Edison Electric Illuminating Company, or the Amsterdam Electric Light, Heat and Power Company has the franchise to do business in the 30th Ward of Brooklyn. It is the City's contention that neither company has any right, that, in fact, the companies have no franchise to do business in any part of Brooklyn. The following gives the various steps in this proceeding in chronological order:

At the meeting of May 13, 1910, a communication from the President of the Board of Aldermen relative to the complaint of John J. Gordon, 8615 17th avenue, Brooklyn, on the alleged destruction of trees on 17th avenue by the Edison Electric Illuminating Company, on account of the erection of poles and overhead wires, was presented to the Board. At the same meeting a report of the Bureau of Franchises relative to said subject was also presented and a resolution adopted calling upon the Edison Electric Illuminating Company to furnish proof of its right and authority to operate in the 30th Ward, Brooklyn, on or before May 31, 1910.

At the meeting of June 10, 1910, a communication was presented from the Edison Electric Illuminating Company, in response to the resolution of May 13, 1910, stating that said Company has franchises covering the entire territory of the Borough of Brooklyn and its authority for operating in the 30th Ward thereof. The matter was referred to the President of the Borough of Brooklyn to remove the poles and wires of said Company, if he had power in the premises.

At the meeting of June 24, 1910, a communication was presented from the Corporation Counsel stating that the Edison Electric Illuminating Company has no valid franchise to operate within the limits of the Thirtieth Ward, Brooklyn, and the counsel for the company was notified that it would be necessary for said company to apply for a franchise if it desired to operate in said locality.

At the meeting of September 16, 1910, a communication was presented from Harry E. Bailey, a member of the Borough Park Baptist Church, stating that the church had entered into a contract with the Edison Electric Illuminating Company for furnishing electric light, and that the Deputy Commissioner of Water Supply, Gas and Electricity had refused to grant a permit to the Edison Company to extend its wires in the Thirtieth Ward, for the reason that the Board of Estimate and Apportionment had decided that such company has no franchise to operate in said ward, and referred to the Corporation Counsel.

At the meeting of January 19, 1911, a report was presented from the Engineer in Charge of the Bureau of Franchises, stating that certain rights were granted to the State Electric Light and Power Company; by resolutions adopted by the Common Council of Brooklyn, which rights were assigned to the Amsterdam Light, Heat and Power Company, which latter company is controlled by the Edison Electric Illuminating Company, and that the rights granted had expired and been forfeited for the reasons stated in said report, and submitting three proposed resolutions, two of which would rescind the resolutions of the Common Council, and the third directing the Corporation Counsel to institute proceedings on the bond furnished under the grant to cover the penalties due.

Action was deferred thereon until February 2, 1911, owing to the service of an injunction and order, restraining the Board from passing or adopting any resolution or resolutions, declaring forfeited or revoked, or terminated or repealed, resolutions of the Common Council of the City of Brooklyn, passed December 30, 1895, granting a franchise or consent to the State Electric Light and Power Company. The matter was referred to the Corporation Counsel for his attention.

At the meeting of February 2, 1911, the matter was referred back to the Chief Engineer of the Board, pending a termination of the Court proceedings.

At the meeting of June 22, 1911, a petition was presented from the South Side Board of Trade of Brooklyn, relative to the construction and operation of a municipal electric light and power plant in the Thirtieth Ward, Brooklyn, and the validity of the franchise of the Edison Electric Illuminating Company to operate in said section, which was referred to the Corporation Counsel.

At the meeting of July 13, 1911, a report was presented from the Commissioner of Water Supply, Gas and Electricity relative to the inadvisability of constructing a municipal electric light and power plant in said section of Brooklyn, and the Secretary was directed to ascertain if the Corporation Counsel had rendered an opinion on the validity of the franchise of the Edison Electric Illuminating Company to operate in the Thirtieth Ward of Brooklyn.

At the meeting of July 27, 1911, a communication was presented from the Corporation Counsel relative to the status of the action of the Amsterdam Electric Light, Heat and Power Company and the Edison Electric Illuminating Company of Brooklyn vs. William J. Gaynor, as Mayor, etc., restraining the Board from taking any action to rescind the franchise heretofore granted to the Amsterdam Company, and stating that the delay in the trial of this action had not been caused through any fault or neglect on the part of the Law Department, adjournments having been obtained by the plaintiff, which was ordered filed and printed in the minutes, and copy of report of the Commissioner of Water Supply, Gas and Electricity, presented to the Board at the meeting held July 13, 1911, as well as copy of the opinion of the Corporation Counsel, presented at the meeting of July 27, 1911, ordered sent to the South Side Board of Trade for its information.

At the meeting of November 23, 1911, a communication from the South Side Board of Trade requesting that the Corporation Counsel be instructed to proceed at once to have the temporary injunction obtained by the Edison Electric Illuminating Company vacated, was presented to the Board and referred to the Corporation Counsel.

The proceeding in Court is brought by the Amsterdam Electric Light, Heat and Power Company and the Edison Electric Illuminating Company of Brooklyn, as plaintiffs, against the members of the Board of Estimate and Apportionment, in their individual capacity, and also as constituting the Board of Estimate and Apportionment. The action was brought to restrain the Board of Estimate and Apportionment from adopting any resolution declaring forfeited or revoked, or terminated or repealed, resolutions of the Common Council of the City of Brooklyn, passed December 30, 1895.

In their complaint the two companies, which are represented by Parker, Hatch & Sheehan, claim franchise rights. In his answer the Corporation Counsel denied most of these claims. The Corporation Counsel asserted that the Edison Electric Illuminating Company of Brooklyn was organized on March 9, 1887, under chapter 40 of the Laws of 1848, known as the Manufacturing Act, and that the company did not receive under this Manufacturing Act any rights, authority or franchise to use the streets, avenues, highways or public places of the City of Brooklyn, for the purpose of supplying electricity to public or private consumers. He asserted also that the Legislature, in making an apparent attempt to amend the Manufacturing Act so that it would apply to certain gas light companies, included in the amendment the following:

Section 3. The City of Brooklyn and the County of Kings are hereby exempted from the provisions of this act.

It is contended by the Corporation Counsel that this amendment shuts the Edison Electric Illuminating Company out of any benefit from the mandatory act, and therefore the company did not get from the State the right or power to lay conductors in or string wires upon any of the streets or avenues of Brooklyn. He contends that the Common Council of Brooklyn did not have the power to make a grant of a franchise to the Edison Electric Illuminating Company, which was a business concern.

The Corporation Counsel contends further that the Amsterdam Electric Light, Heat and Power Company never obtained the local assent of the Common Council of Brooklyn to construct or operate in the streets of that City, and that the assignment or transfer to the Amsterdam Company of the assent which was granted to the State Electric Light and Power Company was null and void, because the State Electric Light and Power Company had abandoned and surrendered its charter, together with the assent of the Common Council, and that the same became null and void.

Other alleged franchises on which the lighting companies rely are attacked by the Corporation Counsel. These so-called franchises or assents were given to Charles Cooper & Co. and Pope Sewall & Co. The Edison Company claims that the Pope Sewall assent was assigned to the Citizen's Electric Illuminating Company, and that the assents to the Charles Cooper & Co. was assigned to the Municipal Electric Light Company, and that the rights so transferred have been reassigned to the Edison Electric Illuminating Company. The Corporation Counsel attacks such alleged assignments.

The majority of the counterclaims set up as a defense by the Corporation Counsel attack the rights of the lighting companies to operate in the whole Borough of Brooklyn, but paragraph 16 subsequently attacks the rights of the companies to operate in the Thirtieth Ward. It is claimed by the Corporation Counsel that not one of the subsidiary franchises of the Edison Electric Illuminating Company of Brooklyn covers the Thirtieth and Thirty-second Wards of Brooklyn. The alleged franchises were all obtained before the Town of New Utrecht, known as the Thirtieth Ward, and the Town of Flatlands, known as the Thirty-second Ward, were added to the City of Brooklyn. The most recent franchise claimed by the Electric Lighting Company was that of the Kings County Electric Light and Power Company, which was granted on June 23, 1894, a date almost two years previous to the annexation of the disputed territories. The Edison and the Amsterdam companies claim that their franchise rights were extended automatically to the new wards, when they became a part of the Borough of Brooklyn. The papers in the case constitute a very voluminous record.

I have been unable to find the slightest evidence of any collusion between the Edison Electric Company of Brooklyn and City officials to steal a franchise, as suggested by Mr. Gordon.

Attached hereto is a printed copy of the complaint in the case, giving the original complaint, the Corporation Counsel's answer, the amended complaint and the amended answer, together with various exhibits. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The papers were ordered filed and the Secretary directed to forward a copy of the report to the South Side Board of Trade of Brooklyn.

The following matter not on the calendar for this day was considered by unanimous consent:

RAILWAYS OVER MANHATTAN BRIDGE.

The following was offered:

Whereas, On the 29th day of February, 1912, the Commissioner of Bridges issued a permit to the Third Avenue Railway Company and the Dry Dock, East Broadway and Battery Railroad Co., to the Brooklyn Heights Railroad Company and the Nassau Electric Railroad Company, to the New York Railways Company and to Coney Island and Brooklyn Railroad Co., to operate a temporary service over the track equipment installed on the Manhattan Bridge and the approaches thereto, pending the granting of the applications of said Companies for the extension of their franchise rights over said bridge and approaches, copy of which said permit is hereby attached and made a part hereof; now therefore it is hereby

Resolved, That the said permit be and the same is hereby in all respects confirmed.

It is understood, however, that this resolution is conditional upon the selection by the said several companies named in said permit of a single line of cars to perform such temporary service for said companies jointly, upon the terms and conditions mentioned in said permit; and

That the said permit shall be revocable by the said Commissioner of Bridges without notice to the several companies therein mentioned.

Permit for the operation of street surface railway cars over and upon the Manhattan Bridge, issued this 29th day of February, 1912, by the Commissioner of Bridges to the Third Avenue Railway Company and the Dry Dock, East Broadway and Battery Railroad Co., to the Brooklyn Heights Railroad Company and the Nassau Electric Railroad Company, to the New York Railways Company and to Coney Island and Brooklyn Railroad Company;

Whereas, There is public demand and necessity for the operation of cars on the Manhattan Bridge, to relieve at the earliest possible moment the traffic congestion and to increase the facilities of the traveling public thereon; and

Whereas, There are available for such railway service two tracks fully installed and equipped upon the Manhattan Bridge structure; and

Whereas, The Third Avenue Railway Company and Dry Dock, East Broadway and Battery Railroad Company, the Brooklyn Heights Railroad Company and the Nassau Electric Railroad Company, and the New York Railways Company and Coney Island and Brooklyn Railroad Company have all indicated their willingness to operate a temporary service over the track equipment now installed on the Manhattan Bridge, pending the granting of their applications for the extension of their franchise rights over said bridge now before the Board of Estimate and Apportionment, such service to provide "Local Service" between termini of the bridge at a 3-cent fare for each passenger with the privilege of the purchase of two tickets for 5 cents; and through service with transfer privilege at a 5-cent fare between points upon and along a route described as follows:

Beginning at a point at or near the junction of Gold street and Fulton street, in the Borough of Brooklyn; thence by double track in Gold street to Willoughby street; thence by double track in Willoughby street and Jay street to Nassau street and the Brooklyn plaza of the Manhattan Bridge; thence across said plaza and by the two tracks designated by the Commissioner of Bridges upon and across the Manhattan Bridge and across the Manhattan plaza thereof to Canal street, in the Borough of Manhattan; thence by double track in Canal street to the Bowery; thence by double track in the Bowery to Grand street; thence by double track in Grand street to Sullivan street; thence by double track in Sullivan street to Canal and Vestry streets; thence by double track in Vestry street to Greenwich street; thence by single track in Greenwich street to Desbrosses street; thence by single track in Desbrosses street to West street to a point in the marginal way adjacent to the North River at or near the Desbrosses Street Ferry; also by single track railroad in Vestry street from Greenwich street to Washington street; thence by single track in Washington street from Vestry street to Desbrosses street, and there connecting with the railroad above described.

Now therefore the Commissioner of Bridges does grant and hereby grants a permit to the Third Avenue Railway Company, and the Dry Dock, East Broadway and Battery Railroad Company, and the Brooklyn Heights Railroad Company and the Nassau Electric Railroad Company, the New York Railways Company and Coney Island and Brooklyn Railroad Company, for the temporary operation of street surface railway cars, electrically propelled, over and upon the Manhattan Bridge and the plazas thereof upon the following terms and conditions, to wit:

1. The Railroad Companies shall pay to the City for the use of the track and equipment upon the bridge and the plazas thereof the sum of five cents per round trip for each and every car operated by each of said companies, respectively, across the bridge and upon the plazas thereof. Such payment shall be made to the Commissioner of Bridges by each of said Companies respectively, at intervals of one month.

2. The Railroad Companies shall at their own expense and at a cost of about \$25,000 furnish and install all of the temporary electrical equipment required for the temporary operation of the street surface railway cars.

3. The City will provide all of the track and the feeder cables now installed or being installed upon the down-stream side of the lower deck of the bridge and upon the plazas of the bridge, with the exception of the feeder cables upon the plazas, which shall be part of the temporary electrical equipment to be supplied by the Railroad Companies.

4. During the term of the operation of the cars under this permit the Railroad Companies shall maintain in good condition all of the track and all of the electrical equipment upon the bridge and the plazas thereof, subject to the direction of the Commissioner of Bridges.

5. The Railroad Companies shall at all times during the term of the operation of their cars under this permit provide a "Local Service" between the termini of the bridge at a three-cent fare for each passenger, with the privilege of the purchase of two tickets for five cents. The number of cars to be operated for this "Local Service" and the schedule upon which they shall be operated shall be subject to such directions as may be issued by the Commissioner of Bridges.

6. The Railroad Companies shall operate all cars upon the bridge structure and the bridge plazas subject to such regulations as may from time to time be issued by the Commissioner.

7. The Railroad Companies shall jointly and severally protect and hold harmless the City and the Commissioner of Bridges from and against all losses, damages and claims for damages, and expense of every nature arising from injury to person or property received or sustained by reason of the operation of street surface railway cars under this permit upon the bridge and plazas thereof.

8. This permit is revocable at will by the Commissioner of Bridges or the Railroad Companies. Upon notice of said revocation the Railroad Companies shall within 30 days of the date thereof cease operation of cars over the bridge under the terms of this permit and shall remove from the bridge and the plazas thereof all of the temporary electrical equipment installed by them, to the satisfaction of the Commissioner of Bridges.

ARTHUR J. O'KEEFFE, Commissioner of Bridges.

The terms and conditions of the above permit are hereby accepted by

THIRD AVENUE RAILWAY COMPANY,

By EDWARD W. MAHER, Vice-President.

F. W. WHITRIDGE, Receiver, Dry Dock, East Broadway & Battery R. R.,

By EDWARD W. MAHER, General Manager for Receiver.

THE BROOKLYN HEIGHTS RAILROAD CO.,

By T. S. WILLIAMS, President.

THE NASSAU ELECTRIC R. R. CO.,

By C. D. MENEELY, Vice-President.

CONEY ISLAND & BROOKLYN R. R. CO.,

By S. W. HUFF, President.

NEW YORK RAILWAYS CO.,

By W. LEON PEPPERMAN, Assistant to President.

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 Manhattan, Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

FINANCIAL MATTERS.

The Secretary presented communications relative to the establishment of positions and additional grades of positions (section 56 of the Charter) and retirements (chapter 669, Laws of 1911, as amended), as follows:

From President of the Borough of Queens requesting the establishment of the grades of positions of Secretary to Commissioner of Public Works, at \$2,500 per annum, for one incumbent, and Stenographer and Typewriter, at \$1,650 per annum, for one incumbent:

From the Secretary, Board of Education, transmitting certified copy of resolution adopted by said Board relative to fixing the compensation of Janitors of various school buildings:

From the Register of Kings County withdrawing application presented to the Board at the meeting of January 25, 1912, and referred to the Committee on Salaries and Grades, requesting the establishment of the grade of position of Chief Custodian, at \$1,200 per annum, and uring favorable consideration of the request for the establishment of the grade of position of Supervisor of Copyists, at \$1,200 per annum, also referred to said Committee at the same meeting.

From the Commissioner of Correction, requesting favorable and immediate action upon the application of Eugene Kiernan, Keeper in the Department of Correction, for retirement:

(On January 5, 1912, a communication from the Mayor, recommending the retirement of the above employee, was referred to the Committee on Salaries and Grades.)

Which were referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

The Secretary presented a petition of the Boilermakers employed in the Department of Docks and Ferries requesting an increase in compensation from \$3.50 to \$4.25 per diem, for eight hours of work, while employed, and a

Communication from the Battalion Chief in Charge of the Brooklyn Repair Shops, Fire Department, requesting that the matter of increasing the salaries of the chief officers of the Fire Department be taken up for consideration.

Which were referred to the Committee on Standardization of Salaries and Grades, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Borough of Brooklyn.

The Secretary presented communications, as follows:

From the Board of Trustees, Bellevue and Allied Hospitals, requesting the amendment of resolution adopted July 17, 1911, authorizing the issue of \$49,500 corporate stock for construction of roof ward and 13 additional small balconies on pavilions A and B of the new Bellevue Hospital by eliminating the number "13";

From Mrs. Elizabeth Gilmore Oppenheimer, offering to sell to the City property on Westchester avenue, The Bronx, as a site for a Contagious Disease Hospital;

From the Lairy League for Social Service, the New York Federation of Churches, requesting the Board to authorize the issue of \$45,000 corporate stock for the erection of a permanent tuberculosis pavilion on the pier now being constructed at the foot of Jackson street, Borough of Manhattan.

Which were referred to the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The Secretary presented a communication from the Social Service Commission, representing the Episcopal Church in the Diocese of New York, approving the measure introduced in the Board of Aldermen calling for better provision for, and regulation of the push-cart tradesmen of the City, and requesting this Board to endorse the plan for the utilization of available City plots for temporary markets in which the peddlers may be segregated, and a

Resolution of the Board of Aldermen, requesting this Board to consider the proposition of relieving the present push-cart traffic congestion by the establishment of markets for such traffic at suitable intervals, such structures to be roofed and the top thereof used as open air gardens or playgrounds for children.

Which were referred to the Commissioners of the Sinking Fund.

The Secretary presented the following communication from the Commissioner of Docks requesting the rescission of resolution adopted by the Board on June 20, 1912, disapproving the request of the Board of Aldermen, by resolution adopted May 7, 1912, for an issue of \$5,000 special revenue bonds, the proceeds to be used by the Commissioner of Street Cleaning for making certain repairs to the crib bulkhead at the foot of East 139th street, Harlem River, Borough of Manhattan, and to the crib bulkhead at the foot of Lincoln avenue, Harlem River, Borough of The Bronx, the work to be done under the jurisdiction of the Department of Docks and Ferries, and for the adoption of a resolution authorizing the issue of special revenue bonds for said purpose, together with a report of the Comptroller recommending approval of said request.

(On June 6, 1912, the resolution of the Board of Aldermen, as above, was referred to the Comptroller, and on June 20, 1912, the report of the Comptroller recommending disapproval of said request was presented to the Board, and a resolution adopted in accordance with said recommendations. See Minutes (Financial and Franchise Matters) of meeting held June 20, 1912, at pages 2805-2806 of the pamphlet.)

(On July 11, 1912, the request of the Commissioner of Docks was referred to the Comptroller for report at this meeting.)

Department of Docks and Ferries, City of New York, Pier "A," North River, June 24, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman of the Board of Estimate and Apportionment:

Sir—I am in receipt of a copy of a resolution adopted by the Board of Estimate and Apportionment June 20, 1912, disapproving the request of the Board of Aldermen by resolution adopted May 7, 1912, for an issue of \$5,000 special revenue bonds, the proceeds to be used by the Commissioner of Street Cleaning for making certain repairs to the crib bulkhead at the foot of East 139th street, Harlem River, Borough of Manhattan, and for making certain repairs to the crib bulkhead at the foot of Lincoln avenue, Harlem River, Borough of The Bronx, the work to be done under the jurisdiction of the Department of Docks and Ferries.

It is noted that the resolution was adopted on recommendation made by the Deputy and Acting Comptroller, the recommendation being based upon section 818 of the Charter, and stating that the repairs should be made by this Department out of the funds provided in the 1912 Tax Budget for this Department for repairs.

The matter of making repairs to water-front property occupied by the various City Departments along the water-front was the subject of an opinion received by me from the Corporation Counsel under date of March 4, 1910, in which opinion the Corporation Counsel stated as follows:

"Pursuant to the provisions of section 818 of the Charter, the Department of Docks and Ferries has jurisdiction over wharf property belonging to the City, and has charge and control of repairing, building, rebuilding, maintaining, altering, strengthening said property, and of cleaning, dredging and deepening in and about the same. Section 828 of the Charter authorized the Commissioner of Docks to appoint necessary employees for the work of construction, repairs and maintenance. Section 836 of the Charter provides that the Commissioner of Docks shall designate and set apart suitable and sufficient wharves, piers, bulkheads, slips and berths for the use of other City Departments.

"By such setting apart and designating of wharf property, the Department for the use of which such wharf property is set apart and designated obtains the exclusive use and possession thereof and the City derives no revenue therefrom.

"In construing a provision in section 4, chapter 677, Laws of 1872, authorizing the setting apart of piers, etc., for the use of the Police Department for street cleaning purposes, Hon. William C. Whitney, Counsel to the Corporation, on May 9, 1876, advised the Police Department that when the Dock Department had set apart for the use of the Board of Police in carrying on the business of street cleaning wharf property as may be required for such purpose, the Dock Department had performed the whole duty imposed upon it by the law in question.

"On July 13, 1885, the then Counsel to the Corporation, in construing a similar provision of the Consolidation Act in connection with a bill rendered for repairs to a pier assigned to the Department of Public Works, said:

"While, therefore, it is true that the Department of Docks has exclusive charge and control of repairing the dock of the City, that work done upon a dock which is kept for revenue can only be done by the Department of Docks; it seems to me that since the dock in question was in the exclusive occupation of the Department of Public Works, and that Department certifies that the work in question was necessary in order to facilitate the repairing and renewal of water pipes, etc., the bill in question should be paid, without litigation in the absence of negligence, fraud or bad faith on the part of the claimant."

"Since the writing of these opinions I am informed that the Department of Docks has made, at the request of the various Departments, repairs to wharf property assigned to and set apart for the use of such Departments.

"During all this time the Department of Docks and Ferries was not required by law to make a departmental estimate and obtain for its running expenses an appropriation from the Board of Estimate and Apportionment and all expenses of every kind of said Department were paid out of the proceeds obtained by the sale of corporate stock placed to the credit of the Department of Docks.

"Last year, however, the Department of Docks and Ferries was required by law to furnish such departmental estimate and obtain an appropriation for running expenses from the Board of Estimate and Apportionment.

"In such appropriation as included in the final estimate were contained certain amounts for repairs and maintenance, but I am informed by Mr. Phelan, of your Department, that no provision was made for maintenance and repairs of wharf property assigned and set apart for the use of other Departments, and that since the 1st of January, 1910, Departments requesting repairs to be made to wharf property assigned to and set apart for such Departments would be made by the Department of Docks and Ferries, provided it was reimbursed by the respective Departments at whose request the repairs were made.

"It therefore seems to me that the appropriation made to the Department of Docks and Ferries for the ensuing year should be confined to wharf property.

under its exclusive control and management, and from which revenue is derived, and should not be applied to wharf property assigned to the various Departments of the City Government and of which such Departments have the sole use and possession.

"Repairs and maintenance of wharf property so assigned should, in my judgment, therefore, be paid out of the appropriations made to the respective Departments.

"The Department of Docks and Ferries has, however, facilities for doing such work in a less expensive manner than other Departments of the City Government, and I would suggest as a practical solution of the difficulty that you confer with the heads of all Departments which may require such work to be done during the coming year, and request them to apply to the Board of Estimate and Apportionment for transfers to the Department of Docks and Ferries from the appropriations to such Departments for maintenance and repairs of amounts sufficient to cover the cost of making the same.

"If any Department refuses to consent to such transfer it should be notified that it should make such repairs and alterations and maintain the wharf property assigned to it out of its own appropriation for repairs and maintenance."

Conditions have not changed since the receipt of the above opinion from the Corporation Counsel in March, 1910, and the Tax Budget for this year does not provide any funds to this Department to make repairs at any water-front property occupied by other City Departments.

I am in receipt of a letter from the Commissioner of Street Cleaning asking that repairs be made at the foot of 139th street, Harlem River, Borough of Manhattan. In order to effect these repairs it is necessary to remove said Department's dump to some other location, and the dump will have to be relocated after the completion of the repairs.

In view of the opinion received from the Corporation Counsel as above, I request that the resolution adopted by the Board of Estimate and Apportionment on June 20, 1912, be rescinded and that a new resolution be adopted by the Board of Estimate and Apportionment authorizing the issue of the special revenue bonds in accordance with the resolution adopted by the Board of Aldermen on May 7, 1912. Yours very truly,

CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 15, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of June 17, 1912, I reported to this Board recommending disapproval of a resolution of the Board of Aldermen requesting \$5,000 in special revenue bonds, the proceeds to be used by the Commissioner of Street Cleaning for the purpose of making certain repairs to the crib bulkhead at East 139th street and the Harlem River, in the Borough of Manhattan, and the crib bulkhead at the foot of Lincoln avenue and the Harlem River, in the Borough of The Bronx.

My reason for disapproving this request was that section 818 of the Greater New York Charter provides that the Commissioner of Docks shall have exclusive charge and control of the repairing, rebuilding, maintaining, altering, strengthening, leasing and protecting dock property. It would violate the Charter for the Commissioner of Street Cleaning to make repairs to dock property. However, there is no objection to the authorization of the special revenue bonds requested, provided the work is done by the Commissioner of Docks, and the money used to reimburse him. With the understanding that the proceeds of the revenue bonds shall be so used, I recommend the adoption of a resolution authorizing the issue of \$5,000 special revenue bonds. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on May 7, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five thousand dollars (\$5,000), the proceeds whereof to be used by the Commissioner of Street Cleaning, for the purpose of making certain repairs to the crib bulkhead at East 139th street and the Harlem River, in the Borough of Manhattan, and the crib bulkhead at the foot of Lincoln avenue and the Harlem River, in the Borough of The Bronx, the work to be done under the jurisdiction of the Department of Docks and Ferries, and all obligations to be contracted hereunder to be incurred before December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, with the condition that the proceeds of the revenue bonds shall be used by the Commissioner of Street Cleaning for the reimbursement of the Dock Commissioner for the repairs to the crib bulkhead at East 139th street and the Harlem River, in the Borough of Manhattan, and the crib bulkhead at the foot of Lincoln avenue and the Harlem River, in the Borough of The Bronx, and for the purpose of providing means for this work, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8, section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand dollars (\$5,000), to be 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Commissioner of Street Cleaning and to the Commissioner of Docks and Ferries.

The Secretary presented reports as follows:

Report of the Comptroller recommending that the request of the President of the Borough of Queens, for approval of a schedule to cover all the engineering work in his office by consolidating five budgetary and two non-budgetary schedules under the title "Engineering Division," be not approved, as any change in Budget titles is contrary to the provisions of section 226 of the Charter.

(On June 13 the above report was laid over for one week, on June 20 was laid over to July 11, 1912, and on said date was laid over to this meeting.)

Report of the Committee on Salaries and Grades recommending that the request of the President of the Borough of Queens, for the establishment of the grade of position of Chief Clerk, at \$3,000 per annum, for 1 incumbent, be denied, for the reason that the work and responsibility of the incumbent has been largely reduced by the appointment of a Secretary to the President.

(On May 2, 1912, the request of the President of the Borough of Queens, as above, was referred to said Committee.)

(On June 27, 1912, the above report was laid over to July 11, 1912, and on said date was laid over to this meeting.)

Which were laid over for the meeting to be held September 19, 1912.

The Secretary presented the following communication from the Public Service Commission for the First District requesting, and report of the Comptroller recommending, that the Board consent to the award of the proposed contract to be entered into between Arthur McMullen and Olaf Hoff and The City of New York for the construction of Section No. 14, Route 5, of the Lexington Avenue Subway, extending under Lexington avenue and the Harlem River, from East 129th street, Manhattan, to Mott avenue, The Bronx, and authorize the issue of \$3,889,775.05 corporate stock to meet the requirements of said contract; also, communications (2) from Duncan McBean, relative to the work to be performed under the above contract:

(On May 23, 1912, the request of the Public Service Commission for approval of the award of the above contract and the authorization of bonds therefor was referred to the Comptroller.)

(On June 13, 1912, a communication from Duncan McBean, protesting the award of the above contract to McMullen and Hoff was also referred to the Comptroller.)

(On June 27, 1912, the above report was laid over to July 11, 1912, and on said date was laid over to this meeting.)

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau street, New York, May 14, 1912.

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

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New

York and Arthur McMullen and Olaf Hoff for the construction at the public expense of Section No. 14 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends from Lexington avenue and East 129th street in the Borough of Manhattan under Lexington avenue and the Harlem River, to Mott avenue in the Borough of The Bronx.

The Public Service Commission for the First District further requests your Honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of said contract, to wit, the sum of three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05), and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit: The sum of three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05).

In witness whereof, the Public Service Commission for the First District has caused its official seal to be hereto affixed and attested by its Secretary, and these presents to be signed by its Chairman this 14th day of May, 1912.

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

[SEAL.]

Attest: JAMES B. WALKER, Acting Secretary.

Resolved, That this Commission hereby accepts the proposal of Arthur McMullen and Olaf Hoff, dated May 7, 1912, for the construction of Section No. 14 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends from Lexington avenue and East 129th street, in the Borough of Manhattan, under Lexington avenue and the Harlem River to Mott avenue, in the Borough of The Bronx, the aggregate of the unit prices in the proposal amounting to three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05).

Resolved, That the Chairman and the Secretary be and they are hereby authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Arthur McMullen and Olaf Hoff with the requirements of the invitation to bidders attached to the said proposal.

Resolved, That the Chairman and the Secretary be and they are hereby authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit: The sum of three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05), and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of said railroad, and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit: the sum of three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05).

Resolved, That the Secretary give notice to the said Arthur McMullen and Olaf Hoff that their proposal has been accepted and the contract awarded to them by this Commission, subject to its being consented to by the Board of Estimate and Apportionment, as required by law.

Resolved, That it be referred to Counsel to the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Arthur McMullen and Olaf Hoff, and in case the sureties named in the proposal of the said Arthur McMullen and Olaf Hoff, or any of them, are not approved by the Commission then to inquire into the sufficiency of any other or substitute sureties, and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

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

I, James B. Walker, duly designated by Travis H. Whitney, Secretary of the Public Service Commission for the First District, to perform the duties of such Secretary in his absence, and the said Travis H. Whitney being now absent, do hereby certify, as Acting Secretary of the Public Service Commission for the First District, and pursuant to said designation, that I have compared the above with the original adopted by said Commission on May 14, 1912, 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 14th day of May, 1912.

[SEAL.]

JAMES B. WALKER, Acting Secretary.

INVITATION TO CONTRACTORS

PART OF LEXINGTON AVENUE ROUTE.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct Section No. 14 of the Lexington Avenue Rapid Transit Railroad.

The points within the City between which the said part is to run and the route or routes to be followed are briefly as follows:

Section No. 14. Beginning at a point in the Borough of Manhattan about 120 feet south of the centre line of East 129th street and extending thence northerly under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx; thence under private property and Park avenue to East 135th street and Park avenue, where the railroad divides into two branches, the west branch beginning at about the centre line of East 135th street and passing under private property to a point in private property about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue, and the east branch extending under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

The general plan of construction calls for a subsurface railroad having four tracks. Turnouts, cross-overs, connections and sidings, etc., will be constructed, all of which are more particularly indicated on the contract drawings. Three types of construction are shown, designated as Type H, Type K and Type L respectively. The bidder may submit a proposal for any or all of such types. After a comparison of the bids, the Commission will determine which of such types shall be adopted.

Bidders will not be required to provide or lay tracks, ties or ballast.

The work of construction under the contract will include the construction of all necessary sewers and connections along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, surface railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be by trench excavation under cover, by trench excavation without cover and by tunnel.

Bidders must examine the form of contract and the specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

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 and in the contract drawings therein referred to. Printed copies of the form of contract, bond and contractor's proposal may be had on application at the office of the Commission, No. 154 Nassau Street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of three dollars (\$3.00) for the plans for each type. The printed form of contract and the contract 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 Contractor will be required to complete the work as soon as practicable and within a period of forty (40) months.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau street, Borough of Manhattan, City of New York, until the 7th day of May, 1912, at twelve (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.

Statements based upon estimates of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required under each type of construction are to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Part of Rapid Transit Railroad—Route No. 5, Section No. 14," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting 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 separate certified check drawn upon a national or state bank or trust company having its principal office in the City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand (\$15,000) dollars. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

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

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

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

A 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 consented to 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 for one hundred thousand (\$100,000) 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 fifteen (15%) per centum of the amounts certified from time to time to be due to the Contractor will be deducted until the amounts so deducted and retained shall equal the sum of four hundred thousand (\$400,000) dollars. Thereafter there shall be so deducted and retained for such purpose ten (10%) per centum of the amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so retained upon depositing in lieu thereof corporate stock of The City of New York equal in market value to the amount so withdrawn.

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond or to make the required deposit, 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 such 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 interests 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.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to 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 to make the required deposit, then the Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage 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 in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, April 12th, 1912.

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

TRAVIS H. WHITNEY, Secretary.
PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT FOR THE CONSTRUCTION OF A PART OF A RAPID TRANSIT RAILROAD, ROUTE No. 5, SECTION No. 14.

Approved as to form this 12th day of April, 1912.

JOHN L. O'BRIEN, Acting Corporation Counsel.

RAPID TRANSIT RAILROAD.

CONTRACT.

Route No. 5, Section No. 14.

Agreement made this _____ day of _____, 1912, 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 Arthur McMullen and Olaf Hoff, 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 covenants and agreements 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, the parties do hereby, the City for itself and its successors and the Contractor for themselves jointly and severally, and their and each of their executors, administrators and assigns agree each with the other as follows:

I.

GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article I. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. 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.

Article II. 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 12, 1905, and which as modified is known as

the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of

Section No. 14.

Section No. 14—129th Street to 138th Street.

Beginning at a point in the Borough of Manhattan about 120 feet south of the centre line of East 129th street and extending thence northerly under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx; thence under private property and Park avenue to East 135th street and Park avenue where the railroad divides into two branches, the west branch beginning at about the centre line of East 135th street and passing under private property to a point in private property about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue, and the east branch extending under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park 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.

Statutes Incorporated Herein.

Article III. 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.

Article IV. Titles, headings, running headlines 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.

Article V. 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 of the location, construction, equipment, maintenance 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 and assigns and any and every person or corporation who or which shall at any time be liable in the place or for the parties of the second part to perform any obligations under this contract assumed by the said parties 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 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, chapter 429 of the laws of 1907, chapter 498 of the laws of 1909, chapters 205, 504, 505 and 506 of the laws of 1910, and chapter 888 of the laws of 1911, 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 or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) 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."

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

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice," "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor; Address May be Changed.

Article VI. 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 post-paid 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.

Article VII. 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.

Article VIII. The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of the proposed 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, PRICES, ETC.
Work to be Done.

Article IX. The Contractor shall do all the work and furnish all the materials, plant, tools and appliances necessary or proper for performing and completing the work of constructing the Railroad in the manner and within the time hereinafter specified. He shall complete the Railroad and do all work and furnish all labor and materials in and about the construction of the Railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, that said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Incidental Work.

Article X. In order to construct the Railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all surface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, 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, including vaults of abutting property, 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 (except as herein provided in respect of temporary pavements for roadways), 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, 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 for the prices herein agreed upon.

Prices.

Article XI. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the Railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

SCHEDULE OF UNIT PRICES.

- Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five and 00/100 dollars (\$5 00/100) per cubic yard.
- Item 2. For earth excavation below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five and 50/100 dollars (\$5 50/100) per cubic yard.
- Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of six and 00/100 dollars (\$6 00/100) per cubic yard.
- Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of six and 00/100 dollars (\$6 00/100) per cubic yard.
- Item 4. For underpinning buildings, including all incidental work and material, as follows:
- (a) For buildings less than seven (7) stories in height the sum of forty and 00/100 dollars (\$40 00/100) per lineal front foot of building underpinned.
- Item 5. For concrete masonry, in place, the sum of ten and 00/100 dollars (\$10 00/100) per cubic yard.
- Item 6. For protective concrete masonry, in place, outside of waterproofing, the sum of nine and 00/100 dollars (\$9 00/100) per cubic yard.
- Item 7. For rubble stone masonry, in place, the sum of eight and 00/100 dollars (\$8 00/100) per cubic yard.
- Item 8-A. For dry rubble masonry, in place, the sum of seven and 00/100 dollars (\$7 00/100) per cubic yard.
- Item 9. For brick masonry, in place, the sum of twenty and 00/100 dollars (\$20 00/100) per cubic yard.
- Item 10. For hollow terra cotta brick masonry, in place, the sum of twenty and 00/100 dollars (\$20 00/100) per cubic yard.
- Item 11. For timber piles, in place and prepared, the sum of seventy-five cents (\$0 75/100) per lineal foot.
- Item 12-A. For timber piles, in place and prepared, as required by Section No. 102 of the Specifications, the sum of two and 00/100 dollars (\$2 00/100) per lineal foot.
- Item 13. For timber foundations, placed and fastened, the sum of one hundred and 00/100 dollars (\$100 00/100) per thousand feet, board measure.
- Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of three and 00/100 dollars (\$3 00/100) per cubic yard.
- Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:
- (a) For one-ply, the sum of fifty cents (\$0 50/100) per square yard.
- (b) For two-ply, the sum of seventy-five cents (\$0 75/100) per square yard.
- (c) For three-ply, the sum of one dollar (\$1 00/100) per square yard.
- (d) For four-ply, the sum of one and 25/100 dollars (\$1 25/100) per square yard.
- (e) For five-ply, the sum of one and 50/100 dollars (\$1 50/100) per square yard.
- (f) For six-ply, the sum of one and 75/100 dollars (\$1 75/100) per square yard.
- Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of twenty and 00/100 dollars (\$20 00/100) per cubic yard.
- Item 17. For vitrified or cast iron drain pipe, in place, as follows:
- (a) For twelve (12) inch vitrified pipe, the sum of one and 00/100 dollars (\$1 00/100) per lineal foot.
- (b) For ten (10) inch vitrified pipe, the sum of eighty cents (\$0 80/100) per lineal foot.
- (c) For eight (8) inch vitrified pipe, the sum of sixty-five cents (\$0 65/100) per lineal foot.
- (d) For six (6) inch vitrified pipe, the sum of fifty cents (\$0 50/100) per lineal foot.
- (e) For four (4) inch vitrified pipe, the sum of forty cents (\$0 40/100) per lineal foot.
- (f) For eight (8) inch cast iron pipe, the sum of one and 50/100 dollars (\$1 50/100) per lineal foot.
- (g) For six (6) inch cast iron pipe, the sum of one and 10/100 dollars (\$1 10/100) per lineal foot.
- (h) For four (4) inch cast iron pipe, the sum of ninety cents (\$0 90/100) per lineal foot.
- Item 17-A. For cast iron pipe and fittings, including specials, "extra heavy," in place, the sum of:
- (c) For six (6) inch, the sum of two and 00/100 dollars (\$2 00/100) per lineal foot.
- Item 18. For tunnel ducts in place as required by Section No. 281 of the specifications, the sum of fifteen cents (\$0 15/100) per duct foot.
- Item 19. For riveted steel, painted and erected, the sum of sixty-five and 00/100 dollars (\$65 00/100) per ton of two thousand pounds.
- Item 20. For steel beams and shapes with connections, painted and erected, the sum of fifty-five and 00/100 dollars (\$55 00/100) per ton of two thousand pounds.
- Item 21. For steel rods and bars built in concrete, the sum of seventy and 00/100 dollars (\$70 00/100) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings (other than tunnel lining) such as man-hole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of eighty and 00/100 dollars (\$80 00/100) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of six cents (\$0 6/100) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand rail, in place, including expansion bolts, etc., the sum of fifty cents (\$0 50/100) per lineal foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of one and 75/100 dollars (\$1 75/100) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of one and 50/100 dollars (\$1 50/100) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of one and 50/100 dollars (\$1 50/100) per square yard.

Item 36. For tube tunnel under Harlem River, as per Type K, the sum of fifteen hundred and 00/100 dollars (\$1,500 00/100) per lineal foot of four-track tunnel complete.

SEWERS.

Vitrified and Cast Iron Pipe.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of four and 00/100 dollars (\$4 00/100) per lineal foot.

Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of four and 50/100 dollars (\$4 50/100) per lineal foot.

Egg-Shaped Brick or Concrete Sewers.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of eighteen and 00/100 dollars (\$18 00/100) per lineal foot.

Item 47. For 4 feet 0 inches by 2 feet 8 inches, the sum of twenty and 00/100 dollars (\$20 00/100) per lineal foot.

Sewers of Special Forms.

Item 70. For 7 feet 0 inches by 12 feet 0 inches, the sum of forty-two and 00/100 dollars (\$42 00/100) per lineal foot.

Item 72-A. For 4 feet 4 inches by 4 feet 6 inches, the sum of twenty-one and 00/100 dollars (\$21 00/100) per lineal foot.

SURFACE AND SUB-SURFACE STRUCTURES.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of fifteen and 00/100 dollars (\$15 00/100) per lineal foot of single track.

PIPES IN STREETS.

For Work and Material as Called for by Section No. 64 of the Specifications.

Water and Gas Pipes.

Water Pipes.

For water pipes in place, as follows:

Item 78. For 4-inch water pipe, the sum of one and 00/100 dollars (\$1 00/100) per lineal foot.

Item 79. For 6-inch water pipe, the sum of one and 25/100 dollars (\$1 25/100) per lineal foot.

Item 82. For 12-inch water pipe, the sum of two and 50/100 dollars (\$2 50/100) per lineal foot.

Gas Pipes.

For gas pipes in place, as follows:

Item 91. For 6-inch gas pipe, the sum of one and 25/100 dollars (\$1 25/100) per lineal foot.

Item 92. For 8-inch gas pipe, the sum of one and 50/100 dollars (\$1 50/100) per lineal foot.

By-Passing Gas Pipes.

Item 99-A. For by-passing pipes in place, as follows:

(a) For 6-inch by-passing pipe, the sum of one and 25/100 dollars (\$1 25/100) per lineal foot.

(b) For 8-inch by-passing pipe, the sum of one and 50/100 dollars (\$1 50/100) per lineal foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe.

Item 100. For new cast iron hub and spigot straight pipe delivered on the work, the sum of fifty and 00/100 dollars (\$50 00/100) per ton of two thousand pounds.

Item 101. For new cast iron hub and spigot pipe, special castings, delivered on the work, the sum of one hundred and 00/100 dollars (\$100 00/100) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in Section No. 65 of the Specifications, the sum of fifty cents (\$0 50/100) per duct foot.

Work Not Susceptible of Classification.

Article XII. In case any work or materials shall be required to be done or furnished in or about the Works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above; but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedules, except as herein otherwise expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this Article, for cost plus ten (10%) per centum, the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memoranda showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article XIII. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the Works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the Works, be found even approximately correct in the construction of the Works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article XIV. 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.

Plans May be Modified.

Article XV. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interests, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article XVI. 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 herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article XVII. The Contractor shall 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 herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article XVIII. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the Works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article XIX. 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 part of the Works.

Inspection.

Article XX. 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 Engineers 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.

Article XXI. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, 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 all employees of the Commission 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.

Engineer to be Furnished Facilities.

Article XXII. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article XXIII. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work or any part thereof shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon 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 remove such materials.

Engineer's Determination—To be Final and Conclusive Upon Contractor.

Article XXIV. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the Works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article XXV. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the Railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article XXVI. 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.

III.

SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class—Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section No. 1. 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 in advance to show all details or precisely to 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 New York, in the best manner, according to the best rules and usages of railroad construction, and 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. 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.

To Construct in Accordance With Specifications.

Section No. 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section No. 3. The contract plans referred to in the contract and specifications bear date January 30, 1912, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

ROUTE NO. 5, SECTION NO. 14.

Contract Drawing No.

and are designated or numbered as follows:

Type K. Numbers A-16-K, B-200, B-201, B-216, B-217, C-1 to C-5, inclusive, C-6-K, C-7, C-8-K, C-9-K, C-10, C-401 and C-1001.

Typical Sections and Dimensions.

Section No. 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section No. 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract-drawings, but designated as Supplementary Drawings. 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 surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and sub-surface structures.

Supplementary Drawings May Be Examined.

Section No. 6. These supplementary drawings can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for such aid, if any, as may be derived from them, on the payment of the cost of blue-printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section No. 7. If, upon opening the streets, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, 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 take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or sub-surface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications not Exclusive.

Section No. 8. 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.

Subdivisions of Specifications.

Section No. 9. These specifications are grouped in subdivisions as follows:

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1
Brief Description of the Work.

General Nature.

Section No. 10. The Rapid Transit Railroad which is hereinbefore described is to be a four track underground railroad or subway, the general details of construction and the location of the various tracks, grades, etc., being indicated more particularly on the contract drawings.

Surface and Subsurface Structures.

Section No. 11. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X. hereof.

Ventilating Chambers and Gratings.

Section No. 12. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of 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 shown 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 the chambers, suitable air-ways, ducts or flues shall be constructed. The chambers will be built at the places and as indicated on the plans.

Section No. 13. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2

General Clauses.

Prevention of Water Percolation.

Section No. 14. 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. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section No. 15. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidly and Safely.

Section No. 16. 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 abutting property and the public travel. Decking of the streets, paving, or other surface work affecting or affected by street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyance to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section No. 17. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system, which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonably probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section No. 18. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section No. 19. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed With Borough President.

Section No. 20. Before any opening is made in the surface of a street, a copy of the permit issued by the Commission shall 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.

Notice Regarding Commencement of Work.

Section No. 21. 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.

Shafts and Dumping Platforms.

Section No. 22. Plans showing the proposed location, and proposed methods of construction of shafts, dumping platforms, etc., shall 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.

Ordinances and Regulations.

Section No. 23. In all operations connected with the Works, all ordinances of the City, and of the Board of Health, so far as they may be valid and operative with respect thereto, 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, shall 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.

Requirements of Borough President, etc., to be Observed.

Section No. 24. 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.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section No. 25. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of any inspection charge in connection therewith. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in Section No. 63 of the specifications.

Temporary Tramways.

Section No. 26. 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 north of the Harlem River, temporary tramways to be used only for the removal of excavated materials, and for the transportation of material for use in construction; provided, however, that any such tramway shall be forthwith removed upon the direction of the Commission.

Storage on Cross-Streets.

Section No. 27. No materials of any nature shall be stored along the streets occupied by the Railroad in the Borough of Manhattan, or on 138th street in the Borough of The Bronx. 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 such structural material as may be absolutely necessary to avoid delay in construction may be stored; 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.

Material Stored.

Section No. 28. 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 in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section No. 29. 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.

Access to Fire Hydrants.

Section No. 30. 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.

Work to be Cleared.

Section No. 31. 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 of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition; but this is in no way to be construed as placing upon the Contractor the usual duties of the Street Cleaning Department.

Assistance to be Rendered to Owners of Buildings.

Section No. 32. 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.

Waste Material.

Section No. 33. 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 materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section No. 34. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense

wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section No. 35. 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.

Advertisements Forbidden.

Section No. 36. 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.

Barricades.

Section No. 37. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section No. 38. 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.

Section No. 39. 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 called for by said working or shop drawings shall be done 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.

Lines and Grades.

Section No. 40. 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. 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 shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section No. 41. 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.

Imperfect Work.

Section No. 42. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section No. 43. 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 at the Contractor's expense.

Condemned Materials to be Removed.

Section No. 44. If any material 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 remove such materials as may be directed by the Engineer.

Competent Men.

Section No. 45. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3**MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.****Access to Buildings, Etc.**

Section No. 46. 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 shall be built and maintained, at the Contractor's expense, 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.

Harlem River—Depth of Channel and Navigation Signals.

Section No. 47. For the prosecution of the work from 131st street in Manhattan to 138th street in The Bronx, including those portions of the Railroad lying beneath the Harlem River, and the approaches thereto, the work may be conducted by means of compressed air, dredging, open caissons founded on piles, or such other means as the Contractor may prefer and as may be approved by the Engineer. Whatever method, however, is pursued, must give the tunnel a firm foundation without danger of settlement, and must during construction give a free and unobstructed waterway at least two hundred (200) feet in width, for the passage of vessels. If necessary, the Contractor must keep a channel dredged to a depth at least equal to the minimum channel depth existing in the Harlem River at the time of commencing construction. The Contractor must also maintain suitable signals during both day and night and during foggy weather, to indicate the position of its temporary work, and must, if required by the Engineer, protect the same by guard piles. When the construction is finished, all temporary piles must be drawn and all parts of caissons or other work removed so that there will be an unobstructed depth of water over the top of the tunnel for the full width of the river measured between the established bulkhead lines as shown on the plans.

The Contractor must comply strictly with the terms of the permit of the Secretary of War for the Harlem River crossing, a copy of which is printed as an appendix to these specifications.

Wharves and Docks.

Section No. 48. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section No. 49. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Conduct of Work.

Section No. 50. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section No. 51. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section No. 52. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work, the streets and sidewalks shall, except as

hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Excavation Without Cover.

Section No. 53. North of East 131st Street the Contractor will generally be permitted to prosecute his work in open trench excavation without cover both in streets and private property under which the Railroad will extend, except that traffic and access to abutting property must be maintained and the tracks of the New York Central and Hudson River Railroad Company protected and supported all as elsewhere provided in this contract.

Street Intersections.

Section No. 54. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted 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.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases 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.

Close Observance of Above Requirements.

Section No. 55. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

By-passing Gas Mains.

Section No. 56. Wherever the excavations are decked, all gas pipes whose service cannot temporarily be dispensed with shall be by-passed, temporary pipes to take their place being laid above the street or sidewalk surfaces. These temporary by-passing pipes will be paid for at the prices stipulated in Schedule Item 99-A. These prices are to include the cost of all labor and material necessary: to provide a temporary and independent system of gas supply to take the place of the system originally in the street; to connect such temporary system with the mains in the intersecting streets; to transfer all house and lamp services to such temporary system; to remove and dispose of the material of such temporary system; and, to restore the original system. No allowance will be made for the maintenance of such temporary system. All maintenance will be considered as of the original system and will be as provided for in Section No. 63.

Temporary Pipes, etc.

Section No. 57. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section No. 58. In general, work will as provided herein be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

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STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUB-SURFACE STRUCTURES.

Notice to Be Given.

Section No. 59. 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.

Section No. 60. In the re-arrangement of sub-surface structures requiring removal and relaying or reconstruction due to interference with the railroad structure 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.

Reconstruction or Relaying, etc.

Section No. 61. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or sub-surface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section No. 62. All work of reconstruction or alteration 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.

Maintenance, Support, etc.

Section No. 63. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and sub-surface structures encountered during the prosecution of his work. All surface and sub-surface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or sub-surface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or sub-surface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the Schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section No. 64. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 78, 79, 82, 91 and 92. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 95), and for restoration of street surface, Item 30 A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section No. 65. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Maintenance of Surface Railroads.

Section No. 66. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface railroads along the line of or crossing the line of the work.

Surface Railroads.

Section No. 67. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Facilities to be Given to Make Extensions.

Section No. 68. In the event of the owners or the City desiring to make any alteration or extension to their structures, 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.

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EXCAVATION.

Width of Excavation.

Section No. 69. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. 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.

Depth of Trenches.

Section No. 70. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section No. 71. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section No. 72. 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 must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section No. 73. 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 shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment for.

Section No. 74. Where underpinning of a building is necessary and the work is done as provided in Section No. 73, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section No. 75. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section No. 76. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of 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.

Vaults of Abutting Property.

Section No. 77. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the Railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section No. 90, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section No. 78. Wherever vaults are broken through or otherwise disturbed, the Contractor shall at his own cost and expense 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.

Rock.

Section No. 79. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section No. 80. 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.

Blasting.

Section No. 81. 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. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section No. 82. 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 it shall be 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.

Near Pipes and Mains.

Section No. 83. 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.

General Precautions in Blasting.

Section No. 84. 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.

Close Drilling.

Section No. 85. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides, and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section No. 86. 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.

Carts to be Tight.

Section No. 87. 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. 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.

Removed Expeditiously.

Section No. 88. 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.

When Excavated Material May be Taken by City.

Section No. 89. If at any time during the course of construction the City shall desire for city purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section No. 90. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section No. 91. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above will be made on account of basements or cellars in property acquired by the City for the construction of the Railroad or on account of vault space or of spaces occupied by pipes and other sub-surface structures.

No Allowance Outside of Ordered Net Lines.

Section No. 92. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the Schedule.

Change of Street Grade.

Section No. 93. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required, and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section No. 94. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section No. 95. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3 are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and sub-surface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

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HARLEM RIVER TUNNELS.

Tunnel Under Harlem River, Including Approaches.

Section No. 96. The work under this contract as described in the contract and specifications and as is more particularly indicated on the contract drawings, comprises the tube tunnels passing under the Harlem River together with the approaches thereto. For the tunnel proper there is provision for four tracks in tubes of cast iron or of steel inclosed in concrete, and the tubes will have a length of about 1,080 feet. Portions of the tubes and the northerly approach thereto are under private property, the use of which by the Contractor, for the purpose of executing his work, will be provided by the City.

The Contractor's attention is especially called to the fact that he will have carefully to support and maintain the tracks, including ducts, cables and other appurtenances, of the New York Central and Hudson River Railroad and other railroads, the cost of which support and maintenance will be included in the prices paid for excavation, Schedule Items 1, 2 and 3.

The Contractor must comply strictly with the terms of the permit of the Secretary of War for the Harlem River crossing, a copy of which is printed as an appendix to the specifications.

Tunnel Tubes.

Section No. 97. Three types of construction are provided for tunnel tubes under the Harlem River together with their approaches.

They are designated as Type H, Type K and Type L. In Type H, the proposed construction of the tunnel tubes is for two pair of cast iron tubes inclosed in concrete; in Type K, is for riveted steel tubes inclosed in concrete; in Type L, is for a set of four cast iron tubes inclosed in concrete all together; the approaches in each type are practically the same, with the slight variations in the quantities of the several items of construction.

Payment for Approaches.

Section No. 98. All work and material included in the construction of the approaches to the tunnel tubes, for either Type H, Type K or Type L, will be paid for at the schedule prices for the several classes of work and materials to which the Schedule Items are applicable, or as provided in Article XII. of this contract.

Grout.

Section No. 99. If required by the Engineer a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time, so as to completely fill all the voids in the masonry.

Compressed Air.

Section No. 100. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks in addition to provide for the escape of workmen at times of accident.

Methods to Be Approved.

Section No. 101. All methods of constructing the tunnels shall be subject to the approval of the Engineer, and be changed from time to time if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Payment for Tunnel Tubes.

Section No. 102. For the construction of the tunnel tubes, the Contractor will be paid at the price stipulated in Schedule Item 35, if for Type H; Item 36, if for Type K, and Item 36-A, if for Type L, which price in each case is to include the tunnel tubes complete.

In each case, for Type H, Type K or Type L, the price is per lineal foot of four-track structure complete, comprising the four tubes, and is to cover the cost of the completed work, including all labor, material and work of whatever nature necessary for and being a part of the construction of the tunnel tubes, including grouting where required; all excavation and dredging, all cast iron, steel, concrete, ducts, hand rail, sumps and necessary drains and other materials included in and necessary for, or forming the permanent railroad structure; all plant, of whatever nature, necessary for the purpose of construction; all pumping and bailing, all sheeting and bracing and all other timber work, either temporary or permanent, necessary for construction, and all other work or material incidental to construction; excepting that if piles, substantially as indicated on the plans in dotted lines, are found necessary for the purpose of foundation support within the net lines of the structure as ordered by the Engineer, the Contractor, in addition to the prices per lineal foot of the completed tubes, will be paid for such piles in place as provided in these specifications and at the price stipulated in Schedule Item 12-A.

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BACKFILLING.

Quality of Material—How Placed.

Section No. 103. The trenches at the sides of and over the top of the sub-way 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 compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures—Frozen Material Not Permitted.

Section No. 104. 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.

Section No. 105. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section No. 106. The cost of back-filling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A and 3.

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PILING AND TIMBERING.

Character of Piles.

Section No. 107. If, in the judgment of the Engineer, the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good, sound 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.

Piles Driven in Required Location.

Section No. 108. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section No. 109. The price herein stipulated to be paid, per lineal foot of timber piles, Schedule Item 12 and 12-A, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section No. 110. If in the judgment of the Engineer special conditions so require, piles of re-inforced concrete of an approved form of construction shall be used.

Payment for Piles Other than Timber Piles.

Section No. 111. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section No. 112. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section No. 113. 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.

Foundation Timber, Measurement and Payment.

Section No. 114. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his directions. Payment for foundation timber will be as provided in Schedule Item 13.

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CEMENT.

Portland Cement.

Section No. 115. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to Be Approved.

Section No. 116. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section No. 117. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section No. 118. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section No. 119. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section No. 120. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO³) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section No. 121. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 and 0.0024 inch in diameter.

Time of Setting.

Section No. 122. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section No. 123. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section No. 124. 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) lbs.; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) lbs.; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) lbs. The strength at twenty-eight (28) days shall not be less than at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, 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 two hundred (200) lbs.; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) lbs. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) lbs. over the strength at seven (7) days.

Long-time Tests.

Section No. 125. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit the further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section No. 126. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section No. 127. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an appropriate manner. The weights of such packages shall be uniform.

Methods of Storing.

Section No. 128. The Contractor shall at all times keep in store on the work or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10.

MORTAR.

Cement and Sand—Mixing.

Section No. 129. 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 shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. 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.

Section No. 130. 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; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11.

MASONRY.

Laid in Portland Cement.

Section No. 131. 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.

Section No. 132. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section No. 133. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall 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.

Protected in Freezing Weather.

Section No. 134. 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.

Hot Weather.

Section No. 135. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section No. 136. 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.

Section No. 137. 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.

Section No. 138. 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.

Defective Masonry.

Section No. 139. 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.

Section No. 140. All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

12.

CONCRETE.

How Composed.

Section No. 141. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section No. 142. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section No. 143. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section No. 144. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (¾) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (¾) and three-fourths (¾) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section No. 145. In concrete where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may imbed in the same 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 shall 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.

Section No. 146. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section No. 147. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section No. 148. Protective concrete outside of waterproofing lines on side and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section No. 149. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section No. 150. 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.

Section No. 151. 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 spading, special tamping bars or tools being 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.

Section No. 152. Concrete 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.

Section No. 153. 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 Cleaned.

Section No. 154. 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.

Section No. 155. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete can be laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, to be furnished by the Contractor.

Joints Cleaned.

Section No. 156. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section No. 157. 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 in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section No. 158. No forms made of wood and covered with iron will be permitted.

Section No. 159. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved if required by the Engineer.

Precautions in Placing.

Section No. 160. 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.

Section No. 161. 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 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.

Reinforcement Steel.

Section No. 162. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section No. 163. The exposed faces of the concrete, excepting within station limits, shall 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.

Impervious to Water.

Section No. 164. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section No. 165. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section No. 166. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.
(For Concrete in Sewers, see Sewers.)

13

BRICK MASONRY.
Quality.

Section No. 167. Bricks for 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.

Section No. 168. Hollow terra cotta blocks or bricks may be required 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.

Section No. 169. 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 stations) not exceeding one-quarter (1/4) of an inch in the beds, and three-eighths (3/8) 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.

Section No. 170. 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.

Section No. 171. 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.

Racked or Toothed.

Section No. 172. All unfinished work shall 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.

Section No. 173. 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.

Measurements and Payments.

Section No. 174. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing and of all other work incidental thereto.

14

STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section No. 175. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section No. 176. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Dry Rubble Masonry.

Section No. 177. In connection with the construction of sewers, or wherever else directed by the Engineer, dry rubble masonry shall be used. It shall consist of stone not less than three inches thick and one cubic foot contents laid on natural beds and bonded to give greatest degree of strength, with such spalls as are required for leveling.

Measurement and Payments.

Section No. 178. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8, if with mortar, and under Item 8-A, if dry.

Other Masonry.

Section No. 179. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article XII. of the contract.

15

WATERPROOFING.

General Limits of Waterproofing.

Section No. 180. In general, waterproofing of the structure will be limited to the roof and sidewalks at the stations and over the roof between stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section No. 181. The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section No. 182. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section No. 183. 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 treated 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."

Section No. 184. 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."

Section No. 185. The number of plies of waterproofing on the sides at stations and over the roof between stations 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.

Section No. 186. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or, if ground

water is below mean high water level, then two (2) feet above mean high water, one (1) ply 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 to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section No. 187. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section No. 188. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section No. 189. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section No. 190. 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.

Section No. 191. 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, at the sole expense of the Contractor.

Quality of Pitch.

Section No. 192. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section No. 193. The coal-tar pitch shall be straight run pitch containing not less than twenty-five (25%) per centum and not more than thirty-two (32%) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section No. 194. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain 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.

Section No. 195. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum 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.

Section No. 196. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, 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 then 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 blow holes.

Fabric for Waterproofing to be Carefully Laid.

Section No. 197. 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 by overlapping, 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.

Section No. 198. 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.

Skilled Labor to be Employed.

Section No. 199. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section No. 200. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16.

STEEL AND IRON.

Open Hearth Process.

Section No. 201. Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

Section No. 202. 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. ".....	.05%	.04%	.05%
Mn. ".....	.60%	.60%	.80%
Si. ".....	.10%	.10%	.35%
Ult. Str.....	60000±4000	50000±4000	65000±(Min.)
Yield Point.....	55% Ult. 150000	55% Ult. 150000	35000±(Min.)
Elongation.....			20% in 2"
Fracture.....	Ult. Str. Silky.	Ult. Str. Silky.	Fine granular
Cold Bend.....	180° flat.	180° flat.	120° (d=3+.)

Yield Point.

Section No. 203. 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.

Section No. 204. 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.

Section No. 205. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section No. 206. 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 (1/2) 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.

Section No. 207. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section No. 208. Rivet rods shall be tested as rolled.

Steel Castings.

Section No. 209. For steel castings the test piece shall be turned to a uniform minimum section of one-half (1/2) inch diameter, for a length of at least two and one-half (2 1/2) inches. Specimens for bending shall be one (1) inch by one-half (1/2) inch in section.

Ductility Elongation.

Section No. 210. In determining the ductility, 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.

Section No. 211. For rollers the specimens shall be cut from the finished bar so that the center of the specimen shall be one inch from the outside of the bar.

Section No. 212. 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.

Section No. 213. 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.

Section No. 214. 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.

Section No. 215. A variation in weight of any piece of steel of two and one-half per centum (2 1/2 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.

Section No. 216. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section No. 217. 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.

Section No. 218. 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) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five degrees (135°) 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.

Section No. 219. 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 (1 1/4) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended 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) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

WORKMANSHIP.

Quality.

Section No. 220. 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, Deformed Sections.

Section No. 221. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section No. 222. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section No. 223. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section No. 224. 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.

Section No. 225. 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.

Section No. 226. 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.

Section No. 227. 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.

Section No. 228. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section No. 229. 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.

Section No. 230. 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.

Section No. 231. 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.

Section No. 232. 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.

Section No. 233. 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.

Section No. 234. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section No. 235. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section No. 236. 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.

Pins and Rollers.

Section No. 237. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1-32) of an inch.

Bed Plates Planed.

Section No. 238. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the center line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section No. 239. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section No. 240. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section No. 241. 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.

Section No. 242. 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.

Section No. 243. 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.

Errors in Plans.

Section No. 244. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section No. 245. 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.

Section No. 246. 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.

Section No. 247. 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.

Section No. 248. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section No. 249. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast-Iron.

Section No. 250. The prices to be paid for steel and cast-iron are as herein provided in Schedule Items 19, 20 and 21. These prices include the cost of the material delivered and erected in the work. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section No. 251. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

Wire Mesh.

Section No. 252. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section No. 253. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

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PAINTING.

Section No. 254. 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.

Section No. 255. All iron shall be scraped free from scale, and receive one coat of red lead 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.

Section No. 256. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" (Pb₃O₄). 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 bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section No. 257. 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 Fahr. 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 Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section No. 258. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section No. 259. Red lead paint shall be mixed in the proportion of 500 lbs. of red lead to 5 1/2 gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section No. 260. 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.

Section No. 261. 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.

Section No. 262. The second coat of paint shall be a carbon paint 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.

Metal to be Cleaned After Erection.

Section No. 263. 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.

Section No. 264. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat When Applied.

Section No. 265. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a 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. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section No. 266. Surfaces of exposed members inaccessible after erecting shall be cleaned and painted before erecting.

Recesses, etc.

Section No. 267. 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.

Section No. 268. All surfaces so close together as to prevent the insertion of a brush must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section No. 269. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section No. 270. Payment for painting is included in the prices for steel and iron.

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DUCTS.

Vitrified Ducts—Quality and Size.

Section No. 271. 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 liable 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 diameter to be such as to pass a mandrel three and one-half (3½) inches in diameter; 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 injure 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.

Thickness of Ducts.

Section No. 272. 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.

Ends Combed.

Section No. 273. 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.

Section No. 274. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section No. 275. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section No. 276. 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 unbleached 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. The muslin shall be not less than 56 x 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) 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.

Mandrels.

Section No. 277. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section No. 278. The ducts shall be laid with dowel pins at least two pins on the opposite sides horizontally.

Laid to Line.

Section No. 279. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section No. 280. After the ducts are laid, and sufficient time is given to allow the mortar in beds to 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 sufficient to pass a three and one-quarter (3¼) inch mandrel, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section No. 281. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section No. 282. 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.

Section No. 283. At manholes the ducts will be laid to conform to the special conditions.

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DRAINS AND PUMPS.

Railroad to be Drained.

Section No. 284. Every part of the Railroad must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section No. 285. 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.

Section No. 286. 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.

Connections and Cross Drains.

Section No. 287. 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. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron, as directed.

Broken Stone for Drainage.

Section No. 288. Broken stone shall be placed for the purposes of drainage, as indicated on the plans or as required by the Engineer.

Sumps.

Section No. 289. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section No. 290. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate automatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section No. 291. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section No. 292. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section No. 293. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17 and 17-A. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever, such as bends, tees, wyes, handholes, etc., and all material necessary for jointing the same. Where back-pressure valves or gate-valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section No. 294. For broken stone for drainage, furnished and placed, section No. 288 payment will be made as provided in Schedule Item 14.

Section No. 295. For pumps, Section No. 290, the Contractor will be paid as provided in Article XII of the contract, not including, however, the pipe connections with sumps and sewers, which pipe will be paid for as hereinbefore provided in Schedule Item 17 and 17-A.

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SEWERS.

In Accordance with Plans and Specifications.

Section No. 296. 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 called for by these specifications and shown on the drawings.

Change of Location.

Section No. 297. If, in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown sub-surface 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.

Section No. 298. 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 sub-surface 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 or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section No. 299. 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 his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section No. 300. 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 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 six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation. Payments for excavation will be based on the requirements as above.

Limit of Trench Opening.

Section No. 301. 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 sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section No. 302. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section No. 303. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the 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 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, and shall have vertical sides to the surface.

Foundations.

Section No. 304. 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 or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section No. 305. 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 no construction work shall be done in his absence.

Trenches to be Kept Free From Water.

Section No. 306. 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.

Gutter and Passageway to be Kept Open.

Section No. 307. At all times, 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, Side-walk and Roadway to be Kept Clear.

Section No. 308. 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.

Section No. 309. 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.

Section No. 310. 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.

Brick.

Section No. 311. 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 bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section No. 312. The bricks shall be properly wet 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.

Racked Back or Toothed.

Section No. 313. 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.

Section No. 314. 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 for 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.

Section No. 315. 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 or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of 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.

Section No. 316. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but 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.

Section No. 317. Spurs 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 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.

Section No. 318. 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 unless otherwise ordered by the Engineer. 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 water-mains.

Under Another Structure.

Section No. 319. Wherever the sewer passes under another structure, extra heavy soil pipe shall be laid from the spur to the outside of such 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 structure shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section No. 320. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section No. 321. 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.

Section No. 322. 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.

Invert to be Protected.

Section No. 323. 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.

Section No. 324. 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.

Defective Work.

Section No. 325. 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.

Section No. 326. 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.

Section No. 327. 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.

Section No. 328. 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 of the Borough in which the work is located, at any time previous to its being used.

Thickness.

Section No. 329. 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 $\frac{5}{8}$ of an inch thick;
- 8-inch pipes shall be not less than $\frac{3}{4}$ of an inch thick;
- 10-inch pipes shall be not less than $\frac{7}{8}$ of an inch thick;
- 12-inch pipes shall be not less than one inch thick;
- 15-inch pipes shall be not less than $1\frac{1}{4}$ inches thick;
- 18-inch pipes shall be not less than $1\frac{1}{2}$ inches thick;
- 24-inch pipes shall be not less than two inches thick;
- 30-inch pipes shall be not less than $2\frac{1}{2}$ inches thick.

Lengths.

Section No. 330. No pipe shall be less than two 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 and Split Pipes.

Section No. 331. 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 three feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section No. 332. 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.

Section No. 333. 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.

Section No. 334. 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 earthen-ware covers set in mortar.

Risers.

Section No. 335. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section No. 336. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section No. 337. 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 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.

Section No. 338. 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.

Section No. 339. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section No. 340. 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 removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section No. 341. Sewers of iron pipe, of 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.

Section No. 342. Wherever such pipes are laid under station platforms 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.

Section No. 343. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms 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.

Section No. 344. 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.

Section No. 345. 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.

Section No. 346. 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.

Section No. 347. 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.

Section No. 348. The masonry of manholes 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 selected bluestone slabs, 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.

Section No. 349. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section No. 350. 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.

Vitrified Bricks or Granite Blocks.

Section No. 351. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section No. 352. 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.

Section No. 353. 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.

Section No. 354. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section No. 355. A cast-iron manhole head and cover of the quality specified for cast-iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, 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.

Section No. 356. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tightfitting, without perforations.

Weights.

Section No. 357. 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.

Section No. 358. When the pavement of the street is asphalt or wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section No. 359. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section No. 360. 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.

Section No. 361. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section No. 362. 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.

Section No. 363. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend 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.

Section No. 364. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well 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 and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section No. 365. 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.

Section No. 366. 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.

Section No. 367. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

Section No. 368. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section No. 369. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Section No. 370. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section No. 371. 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 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.

Section No. 372. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section No. 373. 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.

Mortar.

Section No. 374. 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.

Section No. 375. 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.

Section No. 376. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section No. 377. 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. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section No. 378. 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, all at his own expense.

Payment for Sewers.

Section No. 379. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 38, 39, 45, 47, 70 and 72-A, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections Nos. 296 to 378 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavation.

Section No. 380. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Item No. 2-A (which prices shall include all the matters referred to in Section No. 95), on the basis of size of trench stipulated in Sections No. 300 and 303. Payment for street surface restored shall be provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section No. 381. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section No. 382. Where automatic flush tanks are built as provided in Section No. 372 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section No. 383. Where waterproofing is required and placed in accordance with Section No. 373 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Cast-iron Pipe Sewers, etc.

Section No. 384. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, when indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section No. 385. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Section No. 384 will be included in the prices for the several classes of work and material entering into such construction.

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REQUIREMENTS FOR PIPES.

Generally.

Section No. 386. 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.

Section No. 387. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section No. 388. 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.

Section No. 389. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (1/8) of an inch, or whose dimensions differ by more than one-eighth (1/8) of an inch from those required.

Section No. 390. The pipes shall be designated by dimensions of the interior diameter.

Section No. 391. 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.

Section No. 392. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section No. 393. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section No. 394. 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 as follows:

60-inch pipes, special.
48-inch pipes, 9,886 pounds each.
42-inch pipes, special.
36-inch pipes, 5,920 pounds each.
30-inch pipes, 4,460 pounds each.
24-inch pipes, 2,965 pounds each.
20-inch pipes, 1,979 pounds each.
16-inch pipes, 1,458 pounds each.
12-inch pipes, 1,018 pounds each.
8-inch pipes, 542 pounds each.
6-inch pipes, 416 pounds each.

High Pressure Fire System.

Section No. 395. For high-pressure fire system standard spigot and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section No. 396. 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.

Section No. 397. 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.

Variation in Weights of Castings.

Section No. 398. Any straight pipe the weight of which is deficient by more than the following stated percentages of the standard weight will be rejected:

For pipe 16" or less in diameter, 5%.

For pipe over 16" in diameter, 4%.

Excess weight in any one pipe not to exceed the above stated percentages will be paid for. The total weight, however, to be paid for shall not exceed for each size of pipe received, the sum of the standard weights of the same number of pieces of the given size by more than two (2) per cent.

(The term "Standard Weight" as above used in connection with straight pipe shall be taken to mean the standard weight corresponding to the actual laying length of the pipe as furnished.)

Any special casting the weight of which is deficient by more than the following stated percentages of the standard weight will be rejected:

For special castings 12" or less in diameter, 10%.

For special castings over 12" in diameter, 8%.

Excess weight in any one special casting, not to exceed the following stated percentages, will be paid for:

For special castings 12" or less in diameter, 8%.

For special castings over 12" in diameter, 6%.

The total weight, however, to be paid for shall not exceed for the special castings received the sum of the standard weights of the same number of special castings by more than five per cent. (5%).

Straight Pipe Cast Vertically.

Section No. 399. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section No. 400. All the castings shall be made in such moulding-sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section No. 401. 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, on the outer side in raised letters of not less than two (2) inches in length and one-eighth (1/8) 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.

Section No. 402. The metal of which the castings are to be cast (which shall 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.

Section No. 403. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section No. 404. 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 shall 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.

Section No. 405. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section No. 406. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section No. 407. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300°) degrees Fahrenheit, and shall 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 shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section No. 408. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section No. 409. 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 shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section No. 410. 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 shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section No. 411. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where

the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Section No. 412. 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.

Timber for Blocking.

Section No. 413. 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 1/2 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 3/4 inches thick on one end and 1/2 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 1/2 inch thick on the other.

Joints.

Section No. 414. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (1/4) to one-eighth (1/8) 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 jute 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 flushed 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.

Section No. 415. 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.

Section No. 416. 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.

Connections Interfered With.

Section No. 417. 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, etc.

Section No. 418. Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section No. 419. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

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STREET SURFACE RESTORED.

Pavement to be Restored.

Section No. 420. As soon as the structure in any excavation or trench made within a street shall be completed and the trench back-filled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, 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; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section No. 421. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed 3/4 of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than 3/4 inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other sub-surface structures along or off the line of the Railroad.

Other Sidewalks May be Laid.

Section No. 422. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, 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 his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his 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 restoration as hereinbefore provided.

Payment For Street Surface Restored.

Section No. 423. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section No. 424. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section No. 425. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

GRATINGS AND HAND-RAILS.

Steel Gratings.

Section No. 426. Steel gratings shall be provided and placed over fan and other ventilating chambers, at places shown on the plans, or at other places, if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section No. 427. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section No. 428. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

PERMIT OF SECRETARY OF WAR, DATED MAY 12, 1909, AS AMENDED UNDER DATE OF SEPTEMBER 8, 1909.

Permit Dated May 12, 1909.

J. A. G. O.
(24909)

Whereas, By section 10 of an act of Congress, approved March 3, 1899, entitled "An act making appropriations for the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes," it is provided that it shall not be lawful to build or commence the building of any wharf, pier, dolphin, boom, wier, breakwater, bulkhead, jetty, or other structures in any port, roadstead, haven, harbor, canal, navigable river, or other water of the United States, outside established harbor lines, or where no harbor lines have been established, except on plans recommended by the Chief of Engineers and authorized by the Secretary of War; and it shall not be lawful to excavate or fill, or in any manner to alter or modify the course, location, condition, or capacity of, any port, roadstead, haven, harbor, canal, lake, harbor of refuge, or inclosure within the limits of any breakwater, or of the channel of any navigable water of the United States, unless the work has been recommended by the Chief of Engineers and authorized by the Secretary of War prior to beginning the same; and

Whereas, The Public Service Commission for the First District, State of New York, has applied to the Secretary of War for permission to construct and maintain a tunnel under the Harlem River (and to erect temporary coffer dams and other structures necessary to said tunnel construction), at Lexington avenue, New York City, New York, at the location and as shown on the attached plans; which work and plans have been recommended by the Chief of Engineers, United States Army;

Now, therefore, this is to certify that the Secretary of War hereby gives permission unto the said Public Service Commission for the First District, State of New York, to construct and maintain a tunnel under the Harlem River (and in connection with said construction, to erect temporary coffer dams and other necessary structures), at Lexington avenue, New York City, New York, at the location and as shown on said plans, subject to the following conditions:

1—That the top of said tunnel between the established bulkhead lines shall not be less than twenty-five (25) feet below a plane 297 feet below the United States Coast and Geodetic Survey plane of mean sea level at Sandy Hook.

2—That during construction not more than one-half of the tunnel between bulkhead lines shall be under construction at one time, and that during this period the remaining portion of the waterway between the bulkhead lines shall be left open for navigation excepting for the short width at the channel end of the portion under construction which may be required for the stationary engineering devices necessary for the construction of the part of the tunnel in which work is being carried on.

3—That upon the completion of this section of tunnel all obstructions of whatsoever nature used in or caused by its construction shall be removed down to a depth of not less than 27.97 feet below U. S. Coast and Geodetic Survey plane of mean sea level at Sandy Hook before work on the second half is commenced.

4—That upon the completion of said tunnel all obstructions of whatsoever nature used in or caused by its construction between bulkhead lines shall be removed down to the depth specified in condition numbered 3, *supra*.

5—That this permit shall not be construed as authorizing the invasion or impairment of the rights of any person or corporation; nor as relieving said grantee from liability for any injury that may be inflicted upon private or corporate interests.

6—That any material excavated and all obstructions removed under the foregoing conditions numbered 2, 3 and 4 shall be disposed of according to law.

7—That said licensee herein shall be held responsible for any and all damages that may be inflicted upon navigation interests through any and all causes whatsoever in consequence of work done under this permit.

8—That said licensee herein shall comply with the rules and regulations of the Steamboat Inspection Service of the Department of Commerce and Labor concerning lights, sough signals, etc., and shall maintain such other lights, flags, or other signals as the local engineer office of the United States Army may from time to time prescribe.

9—That the work incident to this permit shall be subject to the supervision and approval of the Engineer Officer of the United States Army in charge of the locality, so far as navigation interests are concerned.

Witness my hand this 12th day of May, 1909.

(Signed) ROBERT SHAW OLIVER, Acting Secretary of War.

AMENDING INSTRUMENT OF SEPTEMBER 8, 1909.

J. A. G. O.
(24909)

In accordance with the recommendation of the Chief of Engineers, United States Army, the Secretary of War hereby amends the instrument, dated May 12, 1909, wherein and whereby the Secretary of War granted permission unto the Public Service Commission for the First District, State of New York, to construct and maintain a tunnel under the Harlem River (and in connection with said construction, to erect temporary coffer dams and other necessary structures), at Lexington avenue, New York City, New York, in the following particulars, viz.:

1—Condition 2 of said instrument is hereby amended so as to read as follows:

"2—That during construction not more than one-half of the tunnel between bulkhead lines shall be under construction at one time, and that during this period the remaining portion of the waterway between the bulkhead lines shall be left open for navigation excepting for the short width at the channel end of the portion under construction which may be required for the stationary engineering devices necessary for the construction of the part of the tunnel in which work is being carried on. But nothing herein contained shall be construed as preventing the construction of more than one-half of the tunnel between bulkhead lines at one time provided that in such case the work of construction of the part of the tunnel in excess of such one-half shall be carried on at a depth of not less than 27.97 feet below the United States Coast and Geodetic Survey plane at mean sea level at Sandy Hook, and provided further that in the construction of this excess of one-half, no obstruction to navigation shall be placed in the river above an elevation of 16 feet below the mean low-water plane of reference."

2—Condition 7 of said instrument, reading as follows:

"7—That said licensee herein shall be held responsible for any and all damages that may be inflicted upon navigation interests through any and all causes whatsoever in consequence of work done under this permit."

—is, in its entirety, abrogated.

Witness my hand this 8th day of September, 1909.

(Signed) ROBERT SHAW OLIVER, Acting Secretary of War.

IV.

SECURITY TO BE FURNISHED BY CONTRACTOR.

Contractor's Bond.

Article XXVII. 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 the form annexed hereto, entitled, "Form of Bond," 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 thousand (\$100,000) dollars. 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 ten 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 ten 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.

*Article XXVIII. 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 thereafter may 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.

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, when and as collected, pay the same to the Contractor. If the securities are in the form of coupon bonds the coupons as they respectively become due shall be delivered to the Contractor. If the deposit be made in cash, interest shall be paid to the Contractor at the average rate of interest received by the City on its bank balances during such period. Provided, however, that the Contractor shall not be entitled to interest, dividends or other profits or income on any securities the proceeds of which shall be used or applied as hereinafter provided.

Security For.

Article XXIX. 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.

Sale of Securities.

Article XXX. 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.

Retention of Security.

Article XXXI. 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.

On Completion of Works.

Article XXXII. 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.

Retained Percentages.

Article XXXIII. In addition and as further security there shall be deducted fifteen per centum (15%) of the amounts certified from time to time to be due to the Contractor until the amount so deducted and retained shall equal the sum of Four Hundred Thousand (\$400,000) Dollars. Thereafter there shall be so deducted and retained for such purpose ten per centum (10%) of amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so to be retained upon depositing with the Comptroller corporate stock of The City of New York of a market value equal to the amount so withdrawn, in which event the provisions of this chapter in respect of securities shall also apply to such corporate stock.

V.

PAYMENTS TO CONTRACTOR.

Partial Payments.

Article XXXV. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand (\$10,000.00) dollars. The Engineer shall further include accepted structural iron and steel delivered on the site of the work, or on property owned or leased by the City, but not incorporated in the work, at the rate of forty (\$40) dollars per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

*Articles XXVIII to XXXII inclusive will form part of the contract only in case the Contractor elects to deposit cash or securities in lieu of a bond or to deposit corporate stock of The City of New York in lieu of retained percentages.

Not by Strict Measurement.

Article XXXVI. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article XXXVII. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for eighty-five or ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished as provided in Article XXXIII, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten or fifteen per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article XXXVIII. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article XXXIX. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article XXX, in the case of partial payment, or Article XXXI, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment, from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article XL. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing 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 as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article XLI. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article XLII. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, 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 Commission, the City or of any person relating to or affecting the work, except only 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.

Article XLIII. 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.

Lien Law.

Article XLIV. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.

CONTRACTOR'S LIABILITY FOR INJURIES TO PERSONS OR PROPERTY.

Contractor Approves Plans as Involving no Damage.

Article XLV. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, 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 or to navigation; and the Contractor will 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 or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage.

Traffic to be Maintained.

Article XLVI. The Contractor shall during the performance of the work safely

maintain the traffic on streets, avenues, highways, parks, waters or other public places 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.

Article XLVII. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor May be Retained to Meet Claims.

Article XLVIII. 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 as aforesaid, 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. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned; the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or other security or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article XLIX. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City 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. As 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.

Damage to Works During Construction.

Article L. All risk of loss or damage to the Works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, 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.

VII.

CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article LI. 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.

Claims for Infringement of Patents.

Article LII. The Contractor shall hold itself 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.

Article LIII. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the Works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in Chapter VI, hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.

TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work

Article LIV. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the delivery of this contract. The entire work covered by this contract shall be completed in all respects within forty (40) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article LV. In the event of delay in completion of the Works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—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 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 the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly for any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. 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 by resolution of the Commission 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.

Article LVI. 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 or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

In case of Variation of Quantities.

Article LVII. The time stipulated within which to complete the Works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article LVIII. 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.

Article LIX. 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 (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extensions Not Cumulative.

Article LX. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article LXI. 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.

IX.

REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

In Case of Default.

Article LXII. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is willfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

May Take Charge of Work.

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the Works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the Bond or other security in its possession. And

Or May Bring Suit.

(3) 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.

X.

MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article LXIII. 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 by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article LXIV. 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.

Contractor Not to Assign, Sublet, etc.

Article LXV. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or trans-

ferree; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article LXVI. 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.

Article LXVII. The Contractor agrees to comply with the provisions of the Labor Law, including Section three thereof as re-enacted by Chapter 36 of the Laws of 1909. 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 the City, 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 section. In obedience to the requirements of Section Fourteen of the Labor Law it is further provided that if the provisions of the said Section Fourteen are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article LXVIII. 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 or 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.

Article LXIX. 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 resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractors have hereunto set their hands and seals the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

ByChairman.

Attest:Secretary.

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

On the day of 1912, 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 1912, 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 1912, 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 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.

FORM OF CONTRACTOR'S BOND, CONSTRUCTION OF A PART OF PROPOSED RAPID TRANSIT RAILROAD, ROUTE NO. 5, SECTION NO. 14.

Form of Contractor's Bond,

Route No. 5, Section No. 14.

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 sum of one hundred thousand dollars (\$100,000) 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 sum of one hundred thousand dollars (\$100,000) and each of the said Sureties to be so held and bound only for a portion of said 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 set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this day of 1912.

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 known as Section 14 of Route 5 extending from 129th street in the Borough of Manhattan, to 138th street in the Borough of The Bronx, 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 defense upon this Bond; that the Sureties shall not set up or have any defense 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 defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

FORM OF CONTRACTOR'S PROPOSAL FOR CONSTRUCTION OF A PART OF A RAPID TRANSIT RAILROAD, PORTION OF LEXINGTON AVENUE ROUTE, ROUTE No. 5, SECTION No. 14. Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad. Route No. 5, Section No. 14.

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

To the Public Service Commission for the First District:

1. The undersigned, Arthur McMullen, does 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 in the form annexed hereto with The City of New York for the construction of Section No. 14 of Route No. 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedules of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedules are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.
Type H.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
Tunnel Tubes.				
35	For tube tunnel under Harlem River as per Type H, per lineal foot of four-track tube complete		1,080	
Approaches.				
1	For earth excavation, above mean high water, (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard		44,740	
2	For earth excavation, below mean high water (except excavations for sewers and pipes), including the disposal of it, etc., per cubic yd.		141,030	
2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yd.		1,500	
3	For rock excavation, (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yd.		20,750	
4	For underpinning buildings, including all incidental work and material, per lineal front ft. of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front ft.		1,342	
	(b) For buildings from seven to twelve stories in height, per front ft.		0	
	(c) For buildings over twelve stories in height, per front ft.		0	
6	For concrete masonry in place, per cubic yd.		26,060	
7	For protective concrete masonry in place outside of waterproofing, per cubic yd.		4,881	
8	For rubble stone masonry in place, per cubic yd.		1,370	
8a	For dry rubble masonry, in place, per cubic yard		100	
9	For brick masonry, in place, per cubic yd.		100	
10	For hollow terra cotta brick masonry in place per cubic yard.		100	
12	For timber piles, in place, and prepared, per lineal foot		8,700	
12a	For timber piles, in place, and prepared, as required by Section No. 102 of the Specifications, per lineal foot.		1,000	
13	For timber foundations, placed and fastened, per thousand foot B. M.		2 M	
14	For broken stone or gravel in place, other than used in concrete, per cubic yard.		100	
15	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yd.		37,350	
	(b) For 2-ply, per square yd.		100	
	(c) For 3-ply, per square yd.		310	

*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.

†The price bid for Item 12, which is for sewer piles, is to apply also to any piles ordered except as required by Section No. 102 of the Specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
	(d) For 4-ply, per square yd.		100	
	(e) For 5-ply, per square yd.		100	
	(f) For 6-ply, per square yd.		100	
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yd.		6,940	
17	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal ft.		100	
	(b) For 10-inch vitrified pipe, per lineal ft.		100	
	(c) For 8-inch vitrified pipe, per lineal ft.		100	
	(d) For 6-inch vitrified pipe, per lineal ft.		100	
	(e) For 4-inch vitrified pipe, per lineal ft.		100	
	(f) For 8-inch cast-iron pipe, per lineal ft.		100	
	(g) For 6-inch cast-iron pipe, per lineal ft.		100	
	(h) For 4-inch cast-iron pipe, per lineal ft.		100	
	(i) For 10-inch cast-iron pipe, per lineal ft.		0	
17a	For cast-iron pipe and fittings, including specials, "extra heavy," in place, as follows:			
	(a) For 3-inch, per lineal foot.		0	
	(b) For 4-inch, per lineal foot.		0	
	(c) For 6-inch, per lineal foot.		90	
	(d) For 8-inch, per lineal foot.		0	
18	For tunnel ducts, in place, as required by section No. 281 of the specifications, per duct foot.		111,700	
19	For riveted steel, painted and erected, per ton of two thousand pounds.		6,785	
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.		1,160	
21	For steel rods and bars built in concrete, per ton of two thousand pounds.		141	
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds.		12	
26	For wire mesh, in place, per pound.		5,200	
27	For one and one-half inch (1½-in.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal ft.		4,220	
28	For steel gratings for ventilation, in place, including frames, etc., per square ft.		2,585	
30	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yd.		3,635	
	(b) For temporary repavement and maintenance of roadways, per square yd.		5,850	
SEWERS.				
Vitrified and Cast-iron Pipe.				
38	For 15-inch vitrified pipe sewer, per lineal ft.		220	
39	For 18-inch vitrified pipe sewer, per lineal ft.		300	
45	Egg-shaped Brick or Concrete Sewers, For 3 ft. 6 in. x 2 ft. 4 in., per lineal ft.		130	
47	For 4 feet by 2 feet 8 inches, per lineal foot		100	
Sewers of Special Form.				
70	For 7 feet by 12 feet, per lineal foot.		650	
72a	For 4 feet 4 inches by 4 feet 6 inches, per lineal foot		350	
SURFACE AND SUB-SURFACE STRUCTURES.				
75	For street surface railroads, including the support, re-construction, re-building, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.		1,454	
	(b) For horse railroads, per lineal foot of single track		0	
Pipe in Streets.				
For Work and Material as Called for by Section No. 64 of the Specifications				
Water and Gas Pipes.				
Water Pipes.				
For water pipes in place, as follows:				
78	For 4-inch water pipe, per lineal ft.		100	
79	For 6-inch water pipe, per lineal foot.		100	
82	For 12-inch water pipe, per lineal ft.		100	
Gas Pipes.				
For gas pipes in place, as follows:				
91	For 6-inch gas pipe, per lineal ft.		100	
92	For 8-inch gas pipe, per lineal ft.		100	
By-Passing Gas Pipes.				
99a	For by-passing pipes in place, as follows:			
	(a) For 6-inch by-passing pipe, per lineal foot		650	
	(b) For 8-inch by-passing pipe, per lineal foot		400	
	(c) For 10-inch by-passing pipe, per lineal foot		0	
	(d) For 12-inch by-passing pipe, per lineal foot		0	
	(e) For 16-inch by-passing pipe, per lineal foot		0	
	(f) For 20-inch by-passing pipe, per lineal foot		0	
New Cast-Iron Hub and Spigot Water and Gas Pipe.				
100	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.		1	
101	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.		2	

Item.	Classification.	Unit Price.	Estimated Ap-proximate Quantities.	This column not to be used by Bidder. Amount.	Item.	Classification.	Unit Price.	Estimated Ap-proximate Quantities.	This column not to be used by Bidder. Amount.
DUCTS IN STREETS.					SEWERS.				
Electric Ducts and Conduits in Streets. (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).					Vitrified and Cast-iron Pipe.				
127	For electric ducts and conduits in place, as provided in Section No. 65 of the specifications, per duct foot.....		5,000		38	For 15-inch vitrified pipe sewer, per lineal foot.....		220	
Schedule of Unit Prices. Type K.					Egg-Shaped Brick or Concrete Sewers.				
Tunnel Tubes.					SURFACE AND SUB-SURFACE STRUCTURES.				
36	For tube tunnel under Harlem River as per Type K, per lineal foot of four-track tube complete.....		1,080		45	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot.....		130	
Approaches.					Sewers of Special Forms.				
1	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....		44,240		47	For 4 feet by 2 feet 8 inches, per lineal foot.....		100	
2	For earth excavation, below mean high water (except excavations for sewers and pipes), including the disposal of it, etc., per cubic yard.....		139,260		70	For 7 feet by 12 feet, per lineal foot.....		650	
2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.....		1,500		72a	For 4 feet 4 inches by 4 feet 6 inches, per lineal foot.....		350	
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....		20,600		PIPES IN STREETS.				
4	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:				For Work and Material as Called for by Section No. 64 of the Specifications.				
	(a) For buildings less than seven stories in height, per front foot.....		1,342		Water and Gas Pipes.				
	(b) For buildings from seven to twelve stories in height, per front foot.....		0		Water Pipes.				
	(c) For buildings over twelve stories in height, per front foot.....		0		78	For water pipes in place, as follows:			
6	For concrete masonry in place, per cubic yard.....		25,680		79	For 4-inch water pipe, per lineal foot....		100	
7	For protective concrete masonry in place outside of waterproofing, per cubic yard.....		4,795		82	For 6-inch water pipe, per lineal foot....		100	
8	For rubble stone masonry in place, per cubic yard.....		1,370			For 12-inch water pipe, per lineal foot....		100	
8a	For dry rubble masonry, in place, per cubic yard.....		100		Gas Pipes.				
9	For brick masonry, in place, per cubic yard.....		100		91	For gas pipes in place, as follows:			
10	For hollow terra cotta brick masonry in place, per cubic yard.....		100		92	For 6-inch gas pipe, per lineal foot.....		100	
*12	For timber piles, in place, and prepared, per lineal foot.....		8,700			For 8-inch gas pipe, per lineal foot.....		100	
12a	For timber piles, in place, and prepared, as required by Section No. 102 of the specifications, per lineal foot.....		1,000		By-Passing Gas Pipes.				
13	For timber foundations, placed and fastened, per thousand foot B. M.....		2 M		99a	For by-passing pipes, in place, as follows:			
14	For broken stone or gravel, in place, other than used in concrete, per cubic yard....		100			(a) For 6-inch by-passing pipes, per lineal foot.....		650	
15	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:					(b) For 8-inch by-passing pipe, per lineal foot.....		400	
	(a) For 1-ply, per square yard.....		37,035			(c) For 10-inch by-passing pipe, per lineal foot.....		0	
	(b) For 2-ply, per square yard.....		100			(d) For 12-inch by-passing pipe, per lineal foot.....		0	
	(c) For 3-ply, per square yard.....		300			(e) For 16-inch by-passing pipe, per lineal foot.....		0	
	(d) For 4-ply, per square yard.....		100			(f) For 20-inch by-passing pipe, per lineal foot.....		0	
	(e) For 5-ply, per square yard.....		100		New Cast-iron Hub and Spigot Water and Gas Pipe.				
	(f) For 6-ply, per square yard.....		100		100	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.....		1	
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.....		6,790		101	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.....		2	
17	For vitrified or cast-iron drain pipe, in place, as follows:				DUCTS IN STREETS.				
	(a) For 12-inch vitrified pipe, per lineal foot.....		100		Electric Ducts and Conduits in Streets. (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).				
	(b) For 10-inch vitrified pipe, per lineal foot.....		100		127	For electric ducts and conduits in place, as provided in Section No. 65 of the specifications, per duct foot.....		5,000	
	(c) For 8-inch vitrified pipe, per lineal foot.....		100		Type L.				
	(d) For 6-inch vitrified pipe, per lineal foot.....		100		TUNNEL TUBES.				
	(e) For 4-inch vitrified pipe, per lineal foot.....		100		36a	For tube tunnel under Harlem River as per Type L, per lineal foot of four-track tube complete.....		1,080	
	(f) For 8-inch cast-iron pipe, per lineal foot.....		100		APPROACHES.				
	(g) For 6-inch cast-iron pipe, per lineal foot.....		100		1	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....		43,680	
	(h) For 4-inch cast-iron pipe, per lineal foot.....		100		2	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....		135,440	
	(i) For 10-inch cast iron pipe, per lineal foot.....		0		2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.....		1,500	
17a	For cast-iron pipe and fittings, including specials, "extra heavy," in place, as follows:				3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....		20,340	
	(a) For 3-inch, per lineal foot.....		0		4	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(b) For 4-inch, per lineal foot.....		0			(a) For buildings less than seven stories in height, per front foot.....		1,342	
	(c) For 6-inch, per lineal foot.....		90			(b) For buildings from seven to twelve stories in height, per front foot.....		0	
	(d) For 8-inch, per lineal foot.....		0			(c) For buildings over twelve stories in height, per front foot.....		0	
18	For tunnel ducts, in place, as required by Section No. 281 of the specifications, per duct foot.....		110,800		6	For concrete masonry in place, per cubic yard.....		25,485	
19	For riveted steel, painted and erected, per ton of two thousand pounds.....		6,755		7	For protective concrete masonry in place outside of waterproofing, per cubic yard.....		4,735	
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.....		1,098		8	For rubble stone masonry in place, per cubic yard.....		1,370	
21	For steel rods and bars built in concrete, per ton of two thousand pounds.....		140		8a	For dry rubble masonry, in place, per cubic yard.....		100	
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..		12		9	For brick masonry, in place, per cubic yard.....		100	
26	For wire mesh, in place, per pound.....		5,230		10	For hollow terra cotta brick masonry in place, per cubic yard.....		100	
27	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot.....		4,260		*12	For timber piles, in place, and prepared, per lineal foot.....		8,700	
28	For steel gratings for ventilation, in place, including frames, etc., per square foot..		2,545		12a	For timber piles, in place, and prepared, as required by Section No. 102 of the specifications, per lineal foot.....		1,000	
30	For street surface restored:				* The price bid for Item 12, which is for sewer piles, is to apply also to any piles ordered except as required by Section No. 102 of the Specifications.				
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard.....		3,618		* The price bid for Item 12, which is for sewer piles, is to apply also to any piles ordered except as required by Section No. 102 of the Specifications.				
	(b) For temporary repavement and maintenance of roadways, per square yard..		5,817						

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
13	For timber foundations, placed and fastened, per thousand feet B. M.	.....	2 M	.....
14	For broken stone or gravel in place, other than used in concrete, per cubic yard.	.....	100	.....
15	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard.	.....	36,615	.....
	(b) For 2-ply, per square yard.	.....	100	.....
	(c) For 3-ply, per square yard.	.....	310	.....
	(d) For 4-ply, per square yard.	.....	100	.....
	(e) For 5-ply, per square yard.	.....	100	.....
	(f) For 6-ply, per square yard.	.....	100	.....
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.	.....	6,785	.....
17	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	.....	100	.....
	(b) For 10-inch vitrified pipe, per lineal foot	.....	100	.....
	(c) For 8-inch vitrified pipe, per lineal foot	.....	100	.....
	(d) For 6-inch vitrified pipe, per lineal foot	.....	100	.....
	(e) For 4-inch vitrified pipe, per lineal foot	.....	100	.....
	(f) For 8-inch cast-iron pipe, per lineal foot	.....	100	.....
	(g) For 6-inch cast-iron pipe, per lineal foot	.....	100	.....
	(h) For 4-inch cast-iron pipe, per lineal foot	.....	100	.....
	(i) For 10-inch cast-iron pipe, per lineal foot	.....	0	.....
17a	For cast-iron pipe and fittings, including specials, "extra heavy," in place, as follows:			
	(a) For 3-inch, per lineal foot.	.....	0	.....
	(b) For 4-inch, per lineal foot.	.....	0	.....
	(c) For 6-inch, per lineal foot.	.....	90	.....
	(d) For 8-inch, per lineal foot.	.....	0	.....
18	For tunnel ducts, in places, as required by Section No. 281 of the specifications, per duct foot	.....	110,800	.....
19	For riveted steel, painted and erected, per ton of two thousand pounds.	.....	6,389	.....
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.	.....	1,209	.....
21	For steel rods and bars built in concrete, per ton of two thousand pounds.	.....	139	.....
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds.	.....	12	.....
26	For wire mesh, in place, per pound.	.....	4,935	.....
27	For one and one-half-inch (1½-in.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	.....	4,260	.....
28	For steel gratings for ventilation, in place, including frames, etc., per square foot.	.....	2,585	.....
30	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard.	.....	3,555	.....
	(b) For temporary repavement and maintenance of roadways, per square yard.	.....	5,750	.....
	SEWERS.			
	Vitrified and Cast-iron Pipe.			
38	For 15-inch vitrified pipe sewer, per lineal foot	.....	220	.....
39	For 18-inch vitrified pipe sewer, per lineal foot	.....	300	.....
	Egg-shaped Brick or Concrete Sewers.			
45	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot.	.....	130	.....
47	For 4 feet by 2 feet 8 inches, per lineal foot	.....	100	.....
	Sewers of Special Forms.			
70	For 7 feet by 12 feet, per lineal foot.	.....	650	.....
72a	For 4 feet 4 inches by 4 feet 6 inches, per lineal foot.	.....	350	.....
	SURFACE AND SUB-SURFACE STRUCTURES.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.	.....	1,440	.....
	(b) For horse railroads, per lineal foot of single track.	.....	0	.....
	PIPES AND STREETS.			
	For Work and Material as Called for by Section No. 64 of the Specifications.			
	Water and Gas Pipes.			
	Water Pipes.			
	For water pipes in place, as follows:			
78	For 4-inch water pipe, per lineal foot.	.....	100	.....
79	For 6-inch water pipe, per lineal foot.	.....	100	.....
82	For 12-inch water pipe, per lineal foot.	.....	100	.....
	Gas Pipes.			
	For gas pipes in place, as follows:			
91	For 6-inch gas pipe, per lineal foot.	.....	100	.....
92	For 8-inch gas pipe, per lineal foot.	.....	100	.....
	By-passing Gas Pipes.			
	For by-passing pipes in place, as follows:			
99a	(a) For 6-inch by-passing pipe, per lineal foot	.....	650	.....
	(b) For 8-inch by-passing pipe, per lineal foot	.....	400	.....
	(c) For 10-inch by-passing pipe, per lineal foot	.....	0	.....
	(d) For 12-inch by-passing pipe, per lineal foot	.....	0	.....
	(e) For 16-inch by-passing pipe, per lineal foot	.....	0	.....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
	(f) For 20-inch by-passing pipe, per lineal foot	.....	0	.....
	New Cast-iron Hub and Spigot Water and Gas Pipe.			
100	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.	.....	1	.....
101	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.	.....	2	.....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127	For electric ducts and conduits in place, as provided in Section No. 65 of the Specifications, per duct foot.	.....	5,000	.....

(2) 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 sum of seventy-five thousand dollars (\$75,000) in the form hereto annexed with the following named Sureties, viz.:

Title Guarantee and Surety Co., Scranton, Pa.; Massachusetts Bonding and Insurance Company, Boston, Mass.

(3) The commission may cause any notice intended for the undersigned to be delivered at room No. 2305 on the 23d floor of the building No. 149 Broadway, in the Borough of Manhattan, in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) 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 the Contractor's Proposal is accepted and that the proposed contract is consented to 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 procure the above described bond to be duly executed and delivered or make the said deposit in cash or securities; 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 procure the said bond to be duly executed and delivered or make the said deposit in cash or securities, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) 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.

(6) There are no persons interested with the undersigned in this Proposal, except Olaf Hoff, 149 Broadway, N. Y.

(7) 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 7th day of May, 1912. ARTHUR McMULLEN.

Affidavit of Verification.
City and County of New York, State of New York, ss.:
Arthur McMullen, being duly sworn, says: I am the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
ARTHUR McMULLEN.
Sworn to before me this 7th day of May, 1912.
ISABELLE A. KIERNAN, Notary Public, No. 3057, New York County.

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.)
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 15, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On May 14, 1912, the Public Service Commission for the First District forwarded for consent and approval a proposed contract between The City of New York and Arthur McMullen and Olaf Hoff for the construction of Section 14, Route No. 5, being that portion of the Lexington Avenue Rapid Transit Railroad extending under Lexington Avenue and the Harlem River from East 129th Street, Manhattan, to Mott Avenue, The Bronx, at an estimated cost of \$3,889,775.05.

A communication, transmitted with the proposed contract, requested the Board of Estimate and Apportionment to prescribe a limit to amount of bonds available to meet the requirements of the contract and also to direct the Comptroller to issue bonds to the extent above noted.

Section 14 consists of a four-track trunk line about 2,000 feet long, which subdivides at 135th Street, in The Bronx, into two two-track branches, 635 feet and 540 feet long respectively. Under the Harlem River 1,080 feet of the four-track line will be of special tunnel construction.

Bids were originally received for this work on October 27, 1910, the type "H" subaqueous tunnel, then, as now, consisting of two separate concrete structures, each containing two segmental cast iron tunnels separated by a partition of ribbed cast iron plates, and type "K," then, as now, being one concrete structure containing four inter-connected steel tubes.

Because of the objection made that a handicap was placed on cast iron by separating the tunnel in two groups as in type "H," the Public Service Commission developed a new design in which one concrete structure housed four cast iron tunnels, and readvertised the work.

Type "K" on the original letting was \$92,500 lower than the low bid on "H." Type "K" is now over \$317,000 below the lowest figure on "H," and type "L," the new cast iron design, is bid on at \$83,000 higher than "K." The low bid is now nearly \$934,000 below the low bid of the previous advertisement for this section, when only four bidders competed, two on "H" and four on "K." This time eight bidders put in estimates, three on "H," six on "L" and seven on "K."

The following tabulation shows the price range on new and old bids:

	Original Low Bid.	Readvertised Low Bid.
Type K	\$4,823,513 30	\$3,889,775 05
Type L	not designed	3,972,943 45
Type H	5,748,608 40	4,207,198 50

* The bidder may, under the Rapid Transit Act, deposit cash or approved securities, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

It has been called to my attention by communications and otherwise, that although type "K" is the cheaper for the City, it is not to its best advantage to use this type; that type "H" should be adopted, and the award made at an increased cost of more than \$317,000 involving an addition to the carrying charge for interest and sinking fund of about \$50 a day. It has also been suggested that type "L" is of superior constructional advantages.

It is claimed that the duct benches, one for each track in type "H," but only one for each of the two outer tracks in types "K" and "L" give footwalks at the car floor level of greater serviceability in case of accident than the low lying rail level spaces, two feet wide (i. e., 6 inches greater than the present subway) on the other side of the cars.

These benches were necessary accessories to the relatively small diameter thin shell tunnels previously constructed to level off a curved surface to serve as a walking space, and to serve as a protective guard against a derailment breaking the tunnel shell, since such tunnels have ordinarily but a thin concrete lining. They also added to the stability and served as a housing for the ducts. If an accident, compelling detrainment of passengers is to be foreseen, then both low and high adjacent footwalks will likely be blocked by wreckage to the extent that passengers will be forced to seek the adjacent tunnel. With type "H," but one such tunnel can be used by passengers, wrecking and relief trains. With types "K" and "L," three such tunnels are adjacent and interconnected.

Type "H" gives a car clearance of two feet as a refuge for trackmen, exclusive of the additional niche depth, on one side of each track only, while on the bench side there is only a clearance of less than one foot. This applies to both express and local tracks. A trackman slow to see an approaching train while working by the duct bench must climb this four-foot bench or cross the tunnel width for safety.

This condition is true of only two of the tunnels in types "K" and "L," the outer track ones. The inner, ordinarily, the express track ones, have two-foot clearance between partition wall and car body on each side, exclusive of niche refuge spaces.

The four-track layouts of types "K" and "L," so far as bench facilities and train passageway clearances are concerned, are identical with the standard subway sections now under construction for the Fourth Avenue subway in Brooklyn, where a solid wall with opening is built between tracks. In view of the above, there appears no weight to the argument when applied to a section of tunnel only 22 car lengths, or 1,080 feet long, for as many openings can be put through these walls as may be necessary in the judgment of the Public Service Commission.

A structural weakness exists in types "H" and "L" in the character of partition walls between tracks, which support the roof, if the possibility is to be considered of an accident demolishing the train itself as a passageway. An accident that would crush out the cast iron partition in types "H" and "L" would leave intact the four-foot concrete partition wall in type "K." It is stated that five and a half inches of concrete is to be placed on each side of this diaphragm, leveling it out to the edge of the ribs and giving a total thickness of one foot, but the plans do not so require. Even then there would be only a one-foot wall as against one four feet thick, and this latter one reinforced with steel plates and rods.

There remain to be considered certain constructional features.

It appears that although the tunnels illustrated by the three types are attainable in situ by other methods, they can be more economically constructed by what has so far been developed in tunnel practice, by the use of only two or three methods. Each of these methods carry patented features.

The design of types "H" and "L" are said to be best adapted to the method used in the construction of the present Harlem River subway tunnel, and type "K" to the method used by the Michigan Central Railroad in crossing under the Detroit river, at Detroit, Michigan.

The advantage of both these over the "shield" method of construction used elsewhere on all the tunnels entering the City is that the tunnel roof can be kept closer to the water surface, because their structural weight makes them stable and self-anchoring without a river bed covering. There is also greater economy in first cost of construction, and the easier approach gradients save operating costs for all time. For several hundred feet in the centre of the river the Detroit tunnel roof extends from 2 to 7 feet above the river bottom.

In each of the two methods noted, a trench must be dredged in the river bottom. In the Harlem river type, piles and sheathing are placed, capable of resisting air pressure and of supporting the tunnel roof. A section of this roof is constructed in open air, is floated over the position to be occupied and is sunk to its final elevation where it is held in place by the side sheathing. The ends of this roof section are bulkheaded, making a box over the river bottom, the sides of which are the sheathing, and the roof the completed tunnel roof. This caisson is pumped out, compressed air is applied to keep out the water, and workmen can prepare the bottom and lay the concrete and segmental iron lining to complete the section. The cast iron tubes are finally unwatered and lined with 15 inches of concrete of 1:2:4 mix. The outside concrete encasement is specified to be of the same proportion as was used on the present Harlem subway tunnel.

By the Detroit method the steel tubes are built and held in their proper relative position for grade and alignment by steel diaphragms placed about 12 feet apart along the section length. These diaphragms form solid partitions and extend out beyond all sides of the tubes to the outline of the finished concrete structure. Sheathing is laid horizontally and bolted to the vertical sides of the diaphragms to hold the concrete in shape. The tubes are bulkheaded at the ends and the structure is floated to position, and by controlling air tanks is submerged to proper grade and line and held in such position by suitable means. The entire space under, around and on top of the tubes is then filled section by section with concrete deposited through one foot pipes, kept continuously charged, extending from inside the accumulating mass through the water to the mixer level on the concrete float, a minimum distance of 50 or 60 feet. These steel tubes are finally unwatered and lined with 1:2:4 concrete 15 inches thick, as are the cast iron tunnels. The mass concrete deposited outside the tubes is of 1:3:6 mix, as specified, as was done at Detroit.

The longevity of type "K" and its impermeability to water has been questioned, because steel is used instead of cast iron, because the concrete forming the outer structure is deposited under water and because this is of a 1:3:6 mix as against the 1:2:4 specified for types "H" and "L."

Cast iron has no advantages over steel when used as a temporary device for concrete moulding purposes. The burden of excess cost because of its greater weight is lost to the City, since the material itself at relatively small increased cost is capable of giving a self-supporting tunnel with a minimum of concrete lining. Under the conditions, it is actually less desirable than steel, in the proportion of 135 linear feet of bolted joints per foot of tunnel as against about 50 feet of riveted joints in steel, capable of air test on the surface. Its efficiency as a water repellent depends on ability to caulk these joints, but with the cast iron designs these are overlaid with 6 inches of concrete as against 15 inches of concrete over the riveted joints.

The Advisory Board of Engineers selected by the Michigan Central Railroad, comprising the chief engineer of that road, the Engineering Vice-President of the New York Central and a consulting engineer designated by the board of directors of the former road, advised the type and method of construction represented by "K" as against three other proposed methods.

It was the expectation that the steel tubes should only serve as a form to hold the outer mass concrete in shape, permit unwatering of the cylinders and the interior construction under normal atmospheric conditions of a superior class of concrete lining which in itself would be sufficient as a tunnel shell. Whether or not the steel rusts seems of small moment; a minimum thickness of 15 inches of 1:2:4 concrete completely lines its interior and its roof and sides are overlaid with a minimum of 3 feet additional of concrete. Judging by the density of a sample of a core of the foundation concrete of the Detroit tunnel, which was mixed 1:4:7½, I am advised that no apprehension need be felt on the score of durability.

The method used in depositing concrete under water differs essentially from the mere discharge of the ingredients from buckets or pipes into an unconfined space. As previously noted, the discharge pipes are kept continuously filled during the operation. No water can secure access. Their discharge ends are immersed in the deposited mass from 2 to 5 feet and the contained mixture gradually works downward, dependent on the extent of end immersion under heavy pressure. The result was a particularly dense concrete, the 1:2:4 similarly deposited in a bulkhead having required blasting for removal.

The La Salle street tunnel, adopted by a board of advisory engineers for a Chicago railway under the Chicago River, is of three-eighths inch steel twin tubes interiorly lined with concrete and separated by a three-foot concrete wall, but wholly without exterior concrete cover. These were sunk in a dredged channel and rest on and are

surrounded merely by sand. The roof concrete is but 2 feet thick and its thickness elsewhere is very much less than required for type "K."

Concerning impermeability, the following, by authority of the Boston Transit Commission, gives the relative leakage per 1,000 cubic feet of interior volume on most of our subaqueous tunnels:

P. R. R., North River.....	0.5 gallons per 24 hours
Detroit	2.7 gallons per 24 hours
East Boston	3.0 gallons per 24 hours
P. R. R., East River.....	3.5 to 7.0 gal. per 24 hours
St. Clair, Sarnia, Mich.....	8.0 gallons per 24 hours
Battery—East River	10.2 gallons per 24 hours
Hudson—Manhattan, N. R.....	12.5 gallons per 24 hours

All of the above are of cast iron construction except East Boston, reinforced concrete, and Detroit.

The studies of the Board of Water Supply Engineers on the impermeability of mortar and concrete under water pressure show that the rates of leakage decreased rapidly during the first six weeks and at a slower rate thereafter.

The length of the Detroit tunnel is 2,665 feet, as against 1,080 feet for the one under consideration. The Detroit tubes are of ¾-inch steel 23 feet 4 inches in diameter, as against the same thickness and about 19 feet in diameter for this. The roof of the Detroit tunnel is about 41 feet below water surface, and in the centre of the river stands exposed above the river bottom. The Harlem tunnel will be covered with a minimum of 9 feet of river bed with 24 feet of water overlying.

The Detroit tunnel was completed July 1, 1910, and is stated as wholly satisfactory. The contracting engineer who had charge of the Detroit work is affiliated with the low bidder on type "K," the design under consideration.

In view of the fact that the design and method of construction has been proven satisfactory, I recommend approval of the contract award as requested, by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and 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 May 14, 1912, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between Arthur McMullen and Olaf Hoff and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction of Section No. 14, Route No. 5, known as the Lexington Avenue Route, beginning at a point in the Borough of Manhattan about 120 feet south of the centre line of East 129th street and extending thence northerly under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx; thence under private property and Park avenue to East 135th street and Park avenue, where the railroad divides into two branches, the west branch beginning at about the centre line of East 135th street and passing under private property to a point in private property about 655 feet from the centre of East 135th street and about 50 feet west of the centre line of Mott avenue, and the east branch extending under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue, at a cost not to exceed three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of proceeds of corporate stock available for the said purposes shall be three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05); 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 three million eight hundred and eighty-nine thousand seven hundred and seventy-five dollars and five cents (\$3,889,775.05), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board, dated May 14, 1912.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the President of the Borough of Richmond.—15.

Negative—The President of the Borough of Queens—1.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of \$950 special revenue bonds (subdivision 8, section 188 of the Charter) to provide for the purchase by the Department of Parks, Borough of Queens, of an automobile, together with a supplemental report of the Comptroller recommending that said request be disapproved, as an investigation shows that the present automobile used by said Department is all that is required for any emergency that may arise; and also the following communication from the Commissioner of Parks, Borough of Queens, referring to above report, requesting that favorable consideration be taken upon the request for the issue of special revenue bonds, in view of the appointment of the Superintendent of Parks, Queens, and for the further reason that the automobile to be purchased is absolutely necessary in order that the work of the Department, widely scattered among the small parks, have proper supervision:

(On May 16, 1912, the resolution of the Board of Aldermen, as above, was presented to the Board and referred to the Comptroller.)

(On June 13, 1912, the report of the Comptroller recommending disapproval of said request was presented to the Board and laid over for one week, and on June 20, 1912, the matter was referred back to the Comptroller for further report, and on July 11, 1912, was laid over to this meeting.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of nine hundred and fifty dollars (\$950), the proceeds whereof to be used by the Department of Parks, Borough of Queens, for the purpose of purchasing an automobile during the year 1912.

Adopted by the Board of Aldermen May 7, 1912.

Approved by the Mayor May 13, 1912.

P. J. SCULLY.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 26, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 7, 1912, the Board of Aldermen adopted a resolution requesting \$950 in special revenue bonds, to be used by the Department of Parks, Borough of Queens, for the purpose of purchasing an automobile. In connection therewith I report as follows:

The Commissioner of Parks, Borough of Queens, in a communication dated June 8, 1912, states that an automobile is necessary in making inspections demanded by the telephone and electric light companies; investigating tree and other complaints and supervising widely scattered parks, and will, moreover, tend to reduce the carefare bills. In addition to the foregoing it is stated that the transportation of the head Gardener and two or three assistant Gardeners to various points in the Borough is necessary. It is also stated that the departmental automobile is in the shops being cleaned and repainted and that the Commissioner is without one for emergency use.

On January 2, 1912, an automobile was purchased by the Department of Parks, Borough of Queens, at a cost of \$2,250. The cost of keeping this automobile to May 31, 1912, a period of five months, was \$564.59, exclusive of a set of tires valued at \$52.35, transferred from Bellevue and Allied Hospitals, making a total cost of \$616.94. This does not include the cost of painting and repairs now going on, estimated at \$200, making a total cost to date of \$816.94.

The carfares for the Department to May 31, 1912, were as follows:

January	\$75 00
February	75 00
March	82 59
April	88 07
May	157 19

The following statement shows the carfare charges of the Department for May, 1912:

J. A. Allen, Assistant Superintendent.....	\$27 23
J. F. Burns, Arboriculturist.....	11 79
F. H. Cook, Foreman.....	3 95
F. A. Stontenburgh, Foreman.....	7 62
Thos. F. Curran, Foreman.....	11 35
J. F. Durney, Transitman.....	4 56
O. E. Fitzpatrick, Inspector.....	6 72
P. Fitzsimmons, Gardener.....	1 30
A. V. Grande, Draftsman.....	1 40
G. J. Hanlon, Carpenter.....	4 64
J. J. Kelly, Transitman.....	2 53
W. H. Meyer, Foreman.....	76
H. H. Murphy, Superintendent of Supplies and Repairs.....	4 94
R. J. Pozdena, Clerk.....	1 30
C. J. Schack, Foreman.....	54
E. J. Walters, Gardener.....	20 50
B. S. Weaver, Assistant Engineer.....	1 90
A. W. Whitson, Assistant Engineer.....	1 16
C. T. Zegers, Transitman.....	4 20
C. Gallagher, Pruner and Climber.....	6 30
P. S. Garavente, Pruner and Climber.....	2 15
Frank Graney, Pruner and Climber.....	2 50
T. F. Hayes, Pruner and Climber.....	4 15
Henry Kraft, Pruner and Climber.....	1 10
T. J. McGee, Pruner and Climber.....	1 15
A. M. Olm, Pruner and Climber.....	4 40
W. A. Roes, Pruner and Climber.....	90
M. Samuels, Pruner and Climber.....	2 80
Thos. Smith, Pruner and Climber.....	4 40
Louis Thresin, Pruner and Climber.....	7 60
John Thompson, Pruner and Climber.....	1 35

\$157 19

An investigation of the individual charges for transportation fails to show that it was necessary for any of these employees to travel by automobile.

One fourth of the total for carfares is chargeable to Pruners and Climbers. Owing to the headquarters of the Department being temporarily located in the Arsenal, Central Park, many employees are obliged to journey from Queens to Manhattan to report. This creates additional carfare expense which will be decreased when headquarters are opened in Forest Park.

There are two carriages for the use of Superintendent and Assistant Superintendent, but only one driving horse. Sufficient balance remains in the appropriate account to provide an additional horse. The Commissioner also states that it is necessary to transport employees to Rockaway. It is certainly more economical to transport them by railroad than by automobile. Moreover, it seems that the work might be so arranged that employees might live in the locality where the work is going on.

It is customary with the Commissioners of Parks in the other Boroughs, when automobiles are not in use, to adopt other modes of conveyance. No additional automobile is provided for emergency for any other Commissioner and the emergencies confronting the Commissioner of Parks, Borough of Queens, do not appear to be more pressing than those of the other Commissioners. With the railroad, trolley facilities and horses and carriages for the Superintendent and Assistant Superintendent the Department appears to be sufficiently equipped for present needs.

The Department automobile, when present repairs are completed, which, it is stated, will be within one week, can be used for any emergency that may arise. One automobile appears to be all that is required for the Park Department in Queens. I recommend that the request be not approved. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The City of New York, Department of Parks, Borough of Queens, July 5, 1912.
To the Honorable the Board of Estimate and Apportionment of The City of New York, 277 Broadway, New York:

Gentlemen—On June 20 the adverse report of the Comptroller, on my request, shown on page 21 of your calendar, for \$950 special revenue bonds for an automobile, was referred back to the Comptroller, pending further information on the subject.

In the Comptroller's report at that time it was stated that the request was disapproved "for the reason that this automobile was required for the use of the Superintendent, who has not, as yet, been appointed," and for additional reasons, which have since been fully explained to the Comptroller. I would respectfully request that this matter be placed upon the calendar for July 11 and that favorable action thereon be then taken.

The only objection at that time supposed to be valid has since been met by the appointment of the Superintendent, although that, in my opinion, was only incidental to the necessity for the machine requested.

Without this small automobile the work of this Department among the widely scattered parks, absolutely cannot receive proper supervision. In view of the urgency of this matter, I respectfully ask your immediate consideration and favorable action.

Very respectfully, W. G. ELIOT, Commissioner of Parks, Borough of Queens.
W. H. Palmer, Esq., Secretary to Commissioner of Parks, Borough of Queens, appeared and urged favorable consideration of the request for special revenue bonds.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen May 7, 1912, and approved by the Mayor May 13, 1912, requesting an issue of nine hundred and fifty dollars (\$950) special revenue bonds, the proceeds whereof to be used by the Department of Parks, Borough of Queens, for the purchase of an automobile, during the year 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York, to an amount not exceeding nine hundred and fifty dollars (\$950), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting the issue of \$11,400 (subdivision 8, section 188 of the Charter) special revenue bonds for the purchase, operation and maintenance of 4 automobiles by the President of the Borough of Queens, for the year 1912, together with a report of the Comptroller recommending the issue of \$4,000 special revenue bonds for the purchase by said Borough President of 2 new automobiles, at a cost not exceeding \$1,800 and \$1,000, respectively, for the employment of 1 Chauffeur and for the maintenance of the machines for the remainder of the year 1912, also recommending the modification of salary schedule No. 2004 to include said additional position:
(On May 16, 1912, the above mentioned resolution of the Board of Aldermen was referred to the Comptroller.)
(On July 11, 1912, the above report was laid over for this meeting.)

In the Board of Aldermen.
Resolved, That, pursuant to subdivision 8, section 188 of the Charter of The City of New York, the Comptroller is hereby authorized to issue special revenue bonds to an amount not exceeding eleven thousand four hundred dollars (\$11,400), proceeds whereof to be expended by the President of the Borough of Queens for the purchase of four (4) automobiles and for the operation and maintenance thereof for the year 1912.

Adopted by the Board of Aldermen April 23, 1912, three-fourths of all the members elected voting in favor thereof.
Received from his Honor the Mayor, May 7, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On April 23, 1912, the Board of Aldermen adopted a resolution

requesting \$11,400 special revenue bonds, the proceeds whereof to be expended by the President of the Borough of Queens for the purchase of four automobiles, and for the operation and maintenance thereof for the year 1912. In connection therewith I report as follows:

Four automobiles are in use in the Borough of Queens. One assigned to the office of the President; two to the Bureau of Highways, and one to the Bureau of Street Cleaning. Of the new machines requested it is proposed to assign one to the Bureau of Buildings, one to the Bureau of Sewers, and two to the Topographical Bureau.

The President states the following:
It is a well known fact that the public transportation facilities in the Borough of Queens are very meager as to the greater percentage of its vast territory, some parts of it being entirely inaccessible except by steam railroad, with trains hours apart. A walk of four or five miles is a common occurrence for the Inspectors to reach certain points after disembarking from the railroad train. From a standpoint of economy this condition should be abolished.

The following schedule shows the automobiles and Chauffeurs in the various Borough President's offices is as follows:

	Cars.	Chauffeurs.
Manhattan	6	6
The Bronx	8	5
Brooklyn	10	10
Richmond	13	8
Queens	4	3

If it is decided to purchase additional automobiles, I am of the opinion that at this time not more than two new machines should be provided, because, in the 1912 Budget additional Inspectors were allowed on account of the difficulty of covering the territory with present transportation facilities.

From the statement of the President of the purposes for which he desires the additional machines it would seem that one runabout at a cost not exceeding \$1,000, and one five-passenger touring car at a cost not exceeding \$1,800, would be adequate. No second-hand machines should be purchased, as the cost of maintaining them is excessive.

The attached resolutions, if adopted, will approve the resolution of the Board of Aldermen to the extent of four thousand dollars (\$4,000), for the purchase of two new automobiles, at a cost not exceeding \$1,000, and the other at a cost not exceeding \$1,800, the employment of one Chauffeur from July 1, 1912, at the rate of \$1,050 per annum, and for the maintenance of the machines for the remainder of the year 1912. Also a resolution modifying the proper schedules within the appropriations for the year 1912. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The President of the Borough of Queens declined the issue of \$1,000 for a runabout automobile.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on April 23, 1912, requesting an issue of special revenue bonds in the sum of eleven thousand four hundred dollars (\$11,400), the proceeds whereof to be expended by the President of the Borough of Queens for the purchase of four (4) automobiles, and for the operation and maintenance thereof for the year 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of three thousand dollars (\$3,000), as follows:

Purchase:	
1 touring car, 5 passenger (new), not to exceed.....	\$1,800 00
Operation:	
Salary of 1 Chauffeur, at \$1,050 per annum from July 1, 1912.....	525 00
Maintenance, repairs and storage.....	675 00
	\$3,000 00

—and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three thousand dollars (\$3,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the President of the Borough of Queens for the year 1912, as follows:

Personal Service—Sewers.			
	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Administration—			
2004 Salaries, Regular Employees:			
Superintendent	\$3,000 00	.....	\$3,000 00
Chief Clerk	2,500 00	.....	2,500 00
Clerk, 3 at \$1,500.....	4,500 00	.....	4,500 00
Clerk	1,050 00	.....	1,050 00
Inspector, 4 at \$1,500.....	6,000 00	.....	6,000 00
Inspector, 2 at \$1,200.....	2,400 00	.....	2,400 00
Stenographer and Typewriter.....	1,050 00	.....	1,050 00
Automobile Engineman .....	.....	\$1,050 00	1,050 00
Schedule total			\$21,550 00
Tax levy allowance.....			\$20,500 00
Rate of special revenue bond allowance.....			1,050 00
Total allowance			\$21,550 00
Purchase and Original Equipment of Automobiles—			
Sewers			\$1,800 00
Special revenue bond allowance.....			\$1,800 00
Maintenance, Repairs and Storage of Automobiles—			
General Administration			\$275 00
Sewers			400 00
Special revenue bond allowance.....			\$675 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Manhattan requesting, and report of the Corporate Stock Budget Committee recommending, the rescission of \$30,000 in the corporate stock authorization for the "Construction of Riverside Drive Extension" and the authorization of corporate stock in a like amount for the preparation of preliminary plans for the extension of Riverside drive:
(On June 20, 1912, a communication from the President of Manhattan relative to the above matter was referred to said Committee.)
(On July 11, 1912, the above report was laid over to this meeting.)

City of New York, Office of the President of the Borough of Manhattan, City Hall, June 19, 1912.

To the Honorable Board of Estimate and Apportionment:

Gentlemen—In the corporate stock appropriation known as "Construction of Riverside Drive Extension from 155th Street to the Hendrick Hudson Memorial Bridge," there is a balance of \$264,488.69, whereas the account known as the appropriation for the "Preparation of Preliminary Plans for the Extension of Riverside Drive," has a balance of but \$220.89. In connection with the work of the special commission on the extension of Riverside Drive, appointed by me, the salaries and incidental expenses will amount to approximately \$30,000. I would accordingly ask to have these two corporate stock accounts so amended as to transfer an amount of \$30,000 from "Construction of Riverside Drive, etc." to the "Preparation of Preliminary Plans." Very truly yours,

E. V. FROTHINGHAM, Acting President, Borough of Manhattan.
July 8, 1912.

To the Honorable Board of Estimate and Apportionment:

Dear Sirs—At a meeting of this Board, held on June 20, 1912, the application of the President of the Borough of Manhattan for the amendment of two corporate stock accounts, known as the "Construction of Riverside Drive" and the "Preparation of Preliminary Plans," was referred to this committee. In the appropriation known as "The Construction of Riverside Drive Extension from 155th Street to the Hendrick Hudson Memorial Bridge," there is a balance of \$264,488.69, and it appears that the appropriation known as "The Preparation of Preliminary Plans for the Extension of Riverside Drive" has a balance of but \$220.89. The President of the Borough of Manhattan has appointed a commission, consisting of three experts, to study the entire situation in connection with the extension of Riverside Drive, and, in order to provide compensation for this commission, and the necessary incidental expenses, the sum of approximately \$30,000 will be required. A very large sum was saved to the City through the cancellation of the former plans for this extension, and it is imperative that the undertaking of this improvement be well considered and furthered under the best engineering advice and counsel.

Your Committee accordingly recommends that the requested transfer of \$30,000 from the Construction Account to the Preliminary Plans Account be made. The adoption of the resolution hereto attached will carry into effect the recommendation of your Committee.

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President of the Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment April 6, 1911, which reads as follows:

"Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment June 1, 1906, and concurred in by the Board of Aldermen July 10, 1906:

"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 five million, two hundred and fifty thousand dollars (\$5,250,000), for the purpose of providing means for the entire construction of the extension of Riverside drive, north of 155th street, to connect with the proposed Henry Hudson Memorial Viaduct and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is 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 the amount of five million, two hundred and fifty thousand dollars (\$5,250,000), the proceeds whereof to be applied to the purposes aforesaid."

—which was amended June 3, 1910, to read as follows:

"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 eight hundred thousand dollars (\$800,000) for the purpose of providing means for the entire construction of the extension of Riverside drive, north of 155th street, to connect with the proposed Henry Hudson Memorial Viaduct, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in manner provided by section 169 of the Greater New York Charter, to the amount of eight hundred thousand dollars (\$800,000), the proceeds whereof to be applied to the purposes aforesaid."

—be it further amended by making the amount authorized four hundred thousand dollars (\$400,000)."

—be and the same is hereby amended by further reducing the authorization thereof to three hundred and seventy thousand dollars (\$370,000).

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Borough of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, which reads as follows:

"Resolved, That, subject to the concurrence herewith of the Board of Aldermen, the following resolution, adopted by the Board of Estimate and Apportionment May 25, 1906, and concurred in by the Board of Aldermen July 2, 1906:

"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 fifty thousand dollars (\$50,000), for the purpose of providing means for the preparation of preliminary plans and specifications for the further improvement of Riverside drive, north of West 158th street, and its extension to connect with the proposed Henry Hudson Memorial Viaduct, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is 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 the amount of fifty thousand dollars (\$50,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended to read as follows:

"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-nine thousand dollars (\$49,000), for the purpose of providing means for the preparation of preliminary plans and specifications for the further improvement of Riverside drive, north of West 158th street, and its extension to connect with the proposed Henry Hudson Memorial Viaduct, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is 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 the amount of forty-nine thousand dollars (\$49,000), the proceeds whereof to be applied to the purposes aforesaid."

—be and the same is hereby further amended by increasing said amount to seventy-nine thousand dollars (\$79,000).

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Borough of Queens and Richmond—16.

The Secretary presented the following communication from the Board of Inebriety, and report signed by the Comptroller and the President of the Borough of Manhattan, members of the Corporate Stock Budget Committee, in reference to proposed site for the Board of Inebriety Farm:

(On July 11, 1912, the above report was laid over to this meeting.)

Board of Inebriety of The City of New York Office, 300 Mulberry Street, New York, April 12, 1912.

Board of Estimate and Apportionment, the Corporate Stock Budget Committee, Hon. WM. A. PRENDERGAST, Chairman:

Gentlemen—The Board of Inebriety desire to withdraw their recommendation of the site adjoining Kings Park, Suffolk County, Long Island, for some time past on the

calendar of the Board of Estimate, and to substitute therefor, as equally suitable for their work, a farm of some 800 acres, known as the Durland farm, situate in the Township of Warwick, Orange County, New York. They hold an option on this farm at \$75,000, or some \$94 an acre.

The Board ask that you take the necessary steps for the issue of corporate stock of The City of New York to pay for this property against the time when favorable action by the Board of Estimate seems likely. Respectfully yours,

WILLIAM MORRISON, Secretary.

The City of New York, Department of Finance, Comptroller's Office, July 15, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—In accordance with the provisions of chapter 551 of the Laws of 1910, the Board of Inebriety has submitted to your Board for consideration several sites for a hospital and industrial colony to be administered under the supervision of the Board of Inebriety of The City of New York.

The final selection of a site was referred to the Board of Inebriety and the Corporate Stock Budget Committee of the Board of Estimate and Apportionment, with the result that a tract of land known as the Durland Farms, containing approximately 800 acres of land (640 acres of upland and 160 acres of land under water in Wickham Lake), in the Township of Warwick, Orange County, New York, is the most desirable for the purposes mentioned.

The original asking price for these premises was \$100,000, which has been reduced to the sum of \$75,000; and while this amount may seem excessive we feel the City is justified in purchasing these premises at the above named figure, since no other tract of ground having such desirable features has been submitted, and for the further reason that the land included within this tract is the most available for the purposes of the Board of Inebriety.

We therefore recommend, pursuant to the provisions of chapter 551 of the Laws of 1910, that your Board approve of the issue of corporate stock to an amount not exceeding \$75,000, to provide means for the acquisition of a tract of land containing approximately 800 acres of upland and land under water, known as the Durland Farms, in the Township of Warwick, Orange County, New York, as a site for a hospital and industrial colony for the care and treatment of inebriates, under the supervision of the Board of Inebriety of The City of New York, and that 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, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid; and we further recommend that your Board approve of the selection of the premises known as the Durland Farms, in the Township of Warwick, Orange County, New York, in accordance with the provisions of chapter 551 of the Laws of 1910, containing in the aggregate 800 acres, more or less, of upland and land under water in Wickham Lake, more particularly described as follows:

Beginning at the northwest corner of the herein described property where the same is intersected by the line of the Lehigh and Hudson Railroad Company, and running thence easterly along the lands of C. M. Houston and heirs of J. D. Benedict about 14 chains to a point; thence northerly along the lands of Benedict to the line of the Lehigh and Hudson Railroad Company; thence easterly along the line of the Lehigh and Hudson to the land of A. R. Holbert; thence south along the land of Holbert to the shore of Wickham Lake; thence in a straight line through the lake about south 88½ degrees east to the land late of William A. Lawrence; thence easterly along the land of Lawrence to the land of George S. Rumsey; thence westerly following the several courses along the lands of Rumsey and others to land of J. H. L. Todd; thence still westerly and northerly along the lands of Todd, the heirs of William H. Wisner and lands of Fred Houston and others to land of Ezra Doty; thence northwesterly along the lands of said Doty and George Sellig and heirs of B. D. Bradner to the point or place of beginning; being all and the same property conveyed to Thomas D. Landon by Jesse Durland by deed, and including also all that portion of Wickham Lake granted by decision of court to Jesse Durland, which decision was confirmed subsequent to the passing of the title of the Durland Farms property to Thomas D. Landon.

—and authorize the Board of Inebriety to acquire these premises at private sale, at a price not exceeding \$75,000; and that the Corporation Counsel be requested to prepare all the necessary agreements and other instruments for the signature of the Board of Inebriety, and to take such other steps and proceedings as may be necessary and proper. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE W. McANENY, President, Borough of Manhattan; President, Board of Aldermen; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 47 of the Greater New York Charter, hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventy-five thousand dollars (\$75,000), to provide means for the acquisition of a tract of land containing approximately 800 acres of upland and land under water, known as the Durland Farms, in the Township of Warwick, Orange County, N. Y., as a site for a hospital and industrial colony for the care and treatment of inebriates, under the supervision of the Board of Inebriety of The City of New York, 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, the proceeds thereof, to the amount of the par value of the stock, 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Borough of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 551 of the Laws of 1910, hereby approves of the selection by the Board of Inebriety, of premises known as the Durland Farms in the Township of Warwick, Orange County, New York, containing in the aggregate 800 acres of land, more or less, of upland and land under water in Wickham Lake, as a site for a hospital and industrial colony for the care and treatment of inebriates, under the jurisdiction of the Board of Inebriety, bounded and described as follows:

Beginning at the northwest corner of the herein described property where the same is intersected by the line of the Lehigh and Hudson Railroad Company, and running thence easterly along the lands of C. M. Houston and heirs of J. D. Benedict about 14 chains to a point; thence northerly along the lands of Benedict to the line of the Lehigh and Hudson Railroad Company; thence easterly along the line of the Lehigh and Hudson to the land of A. R. Holbert; thence south along the land of Holbert to the shore of Wickham Lake; thence in a straight line through the lake about south 88½ degrees east to the land late of William A. Lawrence; thence easterly along the land of Lawrence to the land of George S. Rumsey; thence westerly following the several courses along the lands of Rumsey and others to land of J. H. L. Todd; thence still westerly and northerly along the lands of Todd, the heirs of William H. Wisner and lands of Fred Houston and others to land of Ezra Doty; thence northwesterly along the lands of said Doty and George Sellig and heirs of B. D. Bradner to the point or place of beginning; being all and the same property conveyed to Thomas D. Landon by Jesse Durland by deed, and including also all that portion of Wickham Lake granted by decision of Court to Jesse Durland, which decision was confirmed subsequent to the passing of the title of the Durland Farms property to Thomas D. Landon;

—and authorizes the Board of Inebriety to acquire these premises at private sale, at a price not exceeding seventy-five thousand dollars (\$75,000); and the Corporation Counsel is hereby requested to prepare all the necessary agreements and other instruments for the signature of the Board of Inebriety, and to take such other steps and proceedings as may be necessary and proper in the premises.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Borough of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen relative to, and report of the Committee on Salaries and Grades and the President of the Borough of Manhattan recommending, the establishment in the office of the President of the Borough of Manhattan of the position of Instructor in Swimming, at \$1,050 per annum, for four incumbents, to be employed at the West 60th and East 23d streets baths:

(On June 6, 1912, a resolution of the Board of Aldermen requesting the Board to consider the advisability of establishing the above position, was referred to the said Committee.)

(On July 11, 1912, the above report was laid over to this meeting.)

In the Board of Aldermen.

By Alderman McCourt—

Whereas, There are many deaths by drowning recorded annually, attributed to the inability of people to swim; and

Whereas, The City of New York conducts a large number of floating and stationary baths in each of which there could be taught the art of swimming; therefore Resolved, That the Board of Estimate and Apportionment be and it is hereby requested to consider the idea of establishing the position of Instructor in Swimming in the Public Baths of the City.

Adopted by the Board of Aldermen May 28, 1912, a majority of all the members elected voting in favor thereof.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 26, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 28, 1912, the Board of Aldermen adopted the following resolution:

Whereas, There are many deaths by drowning recorded annually, attributed to the inability of people to swim; and

Whereas, The City of New York conducts a large number of floating and stationary baths in each of which there could be taught the art of swimming; therefore

Resolved, That the Board of Estimate and Apportionment be and it is hereby requested to consider the idea of establishing the position of Instructor in Swimming in the Public Baths of the City.

In connection therewith we report as follows:

At the East 23d Street Bath and the West 60th Street Bath there are located swimming pools, from three to seven feet deep. They are visited daily, summer and winter, by large numbers of people, who cannot swim. It is stated by those in charge that many narrow escapes from drowning have occurred in the pools. The United States Volunteer Life Saving Corps agreed to furnish swimming instructors at the baths, but the hours of these instructors are so irregular that they are of little benefit. The management of the baths has endeavored to employ, as far as possible, Attendants who are able to swim. These Attendants are not instructors. Other duties require them to be continually in uniform, and they are sometimes compelled to jump in the pool, fully clothed, to rescue a person from drowning. It would therefore appear that Attendants, who are well qualified swimming instructors, should be continually on duty in bathing suits, not only to teach the art of swimming, but to prevent loss of life.

In view of the foregoing we recommend the adoption of the attached resolution establishing the grade of position of Swimming Instructor, for four incumbents, two male and two female, to be employed at the East 23d and West 60th Streets Baths.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President of the Board of Aldermen, Committee on Salaries and Grades; GEORGE McANENY, President, Borough of Manhattan.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Manhattan, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Instructor in Swimming.....	\$1,050 00	4

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Education requesting, and report of the Committee on Salaries and Grades recommending, that the compensation of Janitors of Public Schools Nos. 42, 144, 166, Manhattan, and 70 and 16, Brooklyn, be fixed temporarily and until further modified:

(On June 20, 1912, a resolution of the Board of Education relative to fixing the compensation of said employees was referred to the above Committee.)

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to recommend to the Board of Aldermen that the compensation of Janitors of public school buildings, et al., be fixed in accordance with the following list, taking effect on the date indicated in each instance:

Transfers.

Patrick F. Fitzgerald (Janitor Steam Heating) from Public School 70, Brooklyn, to Public School 42, Manhattan; annual compensation, \$4,116, taking effect June 5, 1912.

Sevrin A. Johnson (Janitor Engineer), from Public School 16, Brooklyn, to Public School 70, Brooklyn; annual compensation, \$2,604, taking effect June 5, 1912.

Thomas Slowey (Janitor), from Public School 112, Manhattan, to Public School 144, Manhattan; annual compensation, \$720, taking effect June 8, 1912.

Temporary Assignments.

John D. Nolan, assigned to Public School 42, Manhattan; compensation, \$250 per month, taking effect May 27, 1912.

William J. Moylan, assigned to Public School 16, Brooklyn; compensation, \$136 per month, taking effect June 5, 1912.

Joseph J. Thayer, assigned to Public School 166, Manhattan; compensation, \$145 per month, taking effect June 6, 1912.

A true copy of resolution adopted by the Board of Education on June 12, 1912.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 2, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1912, the Board of Education requested the fixation, pursuant to the provisions of section 56 of the Charter, of rates of compensation for Janitors of Public Schools 42, 144, 166, Manhattan; 70 and 16, Brooklyn. The request involves three transfers at present rates and three temporary assignments at rates less than the corresponding regular rates for permanent employees. No increases are involved.

We recommend the adoption of the attached resolution, granting the request:

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Committee on Salaries and Grades.

The following resolution was offered:

Whereas, By opinions of the Corporation Counsel as of June 28, 1910, and July 30, 1910, the Comptroller was advised that the payment of salaries of Janitors in the Department of Education is illegal unless such salary shall have been established under the provisions of section 56 of the Greater New York Charter; and

Whereas, The matter of adjusting the compensation of Janitors and the fixation of their salaries under the provisions of section 56 of the Charter is now in the hands of a Special Committee of the Board of Estimate and Apportionment; therefore, be it

Resolved, That, pursuant to the provisions of section 56 of the Charter, the Board of Estimate and Apportionment hereby recommends to the Board of Aldermen, pending the report of said Committee, the compensation of Janitors in the

Department of Education be fixed temporarily, and until further modified, in accordance with the following list:

Title	School	Rate of Compensation
Janitor (J. S. H.).....	42, Manhattan.....	\$4,116 00 per annum
Janitor-Engineer	70, Brooklyn.....	2,604 00 per annum
Janitor	144, Manhattan.....	720 00 per annum
Janitor	42, Manhattan.....	250 00 per month
Janitor	16, Brooklyn.....	136 00 per month
Janitor	166, Manhattan.....	145 00 per month

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Comptroller certifying, pursuant to section 246 of the Charter, claim on Sidney E. Hann, in the sum of \$54.78, for garage storage charges and supplies for automobile furnished the Police Department in June, 1911:

City of New York, Department of Finance, Comptroller's Office, July 9, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of section 246 of the Greater New York Charter, being chapter 601, Laws of 1907, of the State of New York, as amended, entitled "An Act to amend the Greater New York Charter in relation to the powers of the Board of Estimate and Apportionment," I hereby certify that a claim has been presented by Sidney E. Hann for the sum of \$54.78, which is alleged to be due for certain automobile storage charges and supplies, furnished and delivered to the Police Department during June, 1911; that the same were furnished in good faith and actually received and used by the Police Department; that the prices charged are just and reasonable; that no action has been instituted on this claim; that said storage and supplies appear to have been ordered verbally by the chauffeur in charge of the automobile; that, therefore, this claim is illegal and invalid against The City of New York, but notwithstanding in my judgment it is equitable and proper for the City to pay said claim in the sum of \$54.78, inasmuch as the City has received the benefit and derived an advantage which in money value is equal to such sum, and that \$54.78 is the amount which should be paid in full satisfaction of said claim; that the appropriation for the year 1911 "Police Department, Contingencies—829," from which said claim should be paid, has sufficient funds remaining therein to pay said claim. Respectfully,

WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 6, 1912.

In the matter of the application made by Sidney E. Hann for the adjustment by the Board of Estimate and Apportionment, under section 246 of the Charter, of his claim for the storage of an automobile and for its supplies, for Police Department, June, 1911.

ALBERT E. HADLOCK, Esq., Chief, Division of Law and Adjustment:

Sir—This claim was originally presented in the sum of \$65.24. As it was incurred by the Police Department on verbal orders, and without filing certificates of necessity, it was illegal and invalid, and so might not be considered by the Comptroller under section 149 of the Charter. It has now been presented in the sum of \$54.78, said sum being the actual cost price or outlay without profit and without interest to claimant for the garage charges, storage one month, and supplies, gasoline, oil, etc., furnished in June, 1911, for and to a Packard touring car, No. 5282, which had been hired by the Police Commissioner, James C. Cropsey, for the use of 2d Deputy Police Commissioner Dougherty, while said Deputy's car was being repaired.

This claim has not been litigated.

Claimant's garage was at Ocean and Emmons avenues, Brooklyn, near Deputy Dougherty's home, and it was there that the automobile was kept and the gasoline, oil, and other supplies were furnished for it on verbal orders by the chauffeur in charge of the automobile, without formal authorization by the head of the Department and the filing of certificates of necessity.

Mr. William P. Riggs, Examiner in this Department, certifies that the prices charged are just and proper, and that the automobile was stored and the supplies furnished as charged for.

Therefore, believing the charge of \$54.78 to be reasonable and just for storage and supplies furnished in good faith, and that the benefit and advantage actually derived by the City from the storage and materials for which the claim is made are in money value equal to such sum and the price therefor being the actual outlay of claimant, without profit and interest, I recommend that the claim be paid in the sum of \$54.78 from "Fund, Police Department, Contingencies, 829—1911." Respectfully,

E. W. IVINS, Auditor of Accounts.

Approved July 6, 1912: A. E. HADLOCK, Chief, Division of Law and Adjustment.

Approved: WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to section 246 of the Greater New York Charter, being chapter 601 of the Laws of 1907, as amended, the Board of Estimate and Apportionment hereby determines that the City has received a benefit from Sidney E. Hann, and is justly and equitably obligated to pay him without interest the sum of fifty-four dollars and seventy-eight cents (\$54.78) for garage storage charges and supplies, for automobile furnished the Department of Police, June, 1911; that the said sum shall be paid in full satisfaction of the claim which has been presented on behalf of said Hann for the storage and supplies above mentioned; that the interests of the City will be best subserved by the payment thereof, and that said sum shall be paid only upon the execution by said claimant of a full release in favor of the City in such form as may be approved by the Corporation Counsel, and the Comptroller is hereby authorized to pay said claim in the sum of fifty-four dollars and seventy-eight cents (\$54.78) from the "Fund, Police Department, Contingencies, 829—1911."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Manhattan relative to, and report of the Corporate Stock Budget Committee recommending, the acquisition of a Court House site at the corner of 2d avenue and 2d street, Manhattan:

(On July 11, 1912, the request of President of the Borough of Manhattan for an issue of \$150,000 corporate stock for the above purpose was referred to said Committee.)

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 8, 1912.

To the Honorable Board of Estimate and Apportionment:

Dear Sirs—For some time past, the Magistrates' Court of the Third District has been holding its sessions in the Florence Building, at 1st street and 2d avenue, in rented quarters, owing to the fact that the Essex Market Court House, situated at Essex street and Essex Market place, has not been fit for use. At one time it was thought that a new court house should be located on the site of the old one; but upon further investigation it appeared unwise, in the first instance, to place a building of this description on a side street, and, in the second instance, it appeared that this location was too far south, and that a site in the neighborhood of Houston street would more nearly mark the centre of the district. After a diligent search for a proper location, I have come to the conclusion that the one which would best answer all purposes would be the plot on the southeast corner of 2d avenue and 2d street, comprising four lots, Nos. 28 to 32 2d avenue, and covering a piece of ground approximately 103½ by 100 feet. The erection of a new building on this site would care for not only the Magistrates' Court, but likewise the Municipal Court of the Second District, now located at 268 Madison street, and the Ludlow Street Jail. The Madison Street Court is also located almost on the southern boundary of the district, and is inconvenient of access both to litigants and to the judges and lawyers. The Ludlow Street Jail is a very old building, which ill serves the purpose for which it is now used, and occupies valuable land. The assessed valuation of these two plots and of the Delancey street station, which has been abandoned, is \$430,000, and, ac-

ording to an estimate made by the Real Estate Bureau of the Department of Finance, the present actual value of the land alone is approximately \$272,000. The plot of ground at the corner of 2d avenue and 2d street is estimated to be worth about \$150,000; so that the sale of these three properties would not only provide the necessary funds for the purchase of the proposed site, but would leave a substantial margin. It appears that this 2d avenue site is mainly in leasehold properties, and will, therefore, have to be taken by condemnation proceedings.

I would accordingly request an appropriation of \$150,000 to cover the cost of this site, and, furthermore, that the necessary resolutions be adopted requesting the Corporation Counsel to institute condemnation proceedings. Very respectfully,
GEORGE McANENY, President, Borough of Manhattan.

July 12, 1912.

To the Honorable Board of Estimate and Apportionment:

Sirs—At a meeting of this Board held on July 11, 1912, a communication was received from the President of the Borough of Manhattan requesting that a site located at the southeast corner of 2d avenue and 2d street be acquired by the City by condemnation proceedings for the purposes of a court house.

This new court building is to house the Magistrate's Court and prison of the Third District, the Municipal Court of the Second District, and the Federal Jail. At the present time the Magistrate's Court of the Third District is being held in rented quarters in the Florence Building, at 2d avenue and 1st street, because the Essex Market Court House, where it was previously held, had fallen into such a state of disrepair as to make it untenable. The Municipal Court of the Second District is located at 268 Madison street, in a building that is ill suited to the purpose, and about which there is constant complaint on account of the inadequacy of the quarters. The Federal Jail, known as the Ludlow Street Jail, occupies a considerable plot of land, and, although the number of prisoners rarely exceeds twelve at one time, the construction of the building is such that it calls for a large staff of Keepers, and is in every way antiquated and badly arranged.

The value of the land on which these three buildings are situated is approximately \$250,000, and, as they are in congested quarters of the City where there is a ready sale for real estate, there seems to be little doubt that this amount could be promptly realized.

In addition to the above mentioned sites, there is the Delancey street police station plot, which has been abandoned, and which could likewise be disposed of. The location of the proposed site is very much more advantageous than the ones that it is to replace, inasmuch as the present Municipal Court House is situated on the extreme southern boundary of the court district; and the Magistrate's Court as well will be far more centrally located at the proposed site than at the Essex Market location.

The assessed value of the property in question is \$140,000, and, according to the best advice obtainable, the present actual value is approximately \$175,000.

The site requested is 103½ feet on the avenue by 100 feet on 2d street. It is sufficiently large to furnish adequate quarters for both the Magistrate's and Civil Courts, and will be so arranged that the entrances are on different streets. The necessary provision for the prison and jail will probably be made on the roof, and, by the exercise of more modern methods, there will be a saving to the City, both in the first cost and in the cost of administration. The question of location and type of building has been exhaustively discussed between the President of the Borough of Manhattan and the Special Committee on Courts, and there appears to be no differences of opinion as to the entire desirability of the proposed scheme.

As this site is mainly in leasehold properties, it will be necessary to take the same by condemnation proceedings; and it is the recommendation of this Committee that the Corporation Counsel be requested to proceed with the steps necessary to acquire this site by condemnation. Respectfully submitted,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the President of the Borough of Manhattan of property located at the southeast corner of 2d avenue and 2d street, Borough of Manhattan, being 103½ feet on 2d avenue and 100 feet on 2d street, as a site for a Court House, the assessed valuation of which is one hundred and forty thousand dollars (\$140,000), for the year 1911, and the Corporation Counsel be and is hereby authorized to institute condemnation proceedings for the acquisition of said property.

Nothing in this resolution contained shall be construed as preventing the Comptroller of The City of New York from entering into a contract for the acquisition of said property at private sale, subject to the approval of 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the New York Association for Improving the Condition of the Poor, relative to the erection and equipment of a hospital at Rockaway Beach, at an expense of approximately \$250,000, and the turning of same over to the City, together with a report of the Committee, consisting of the President of the Board of Aldermen, the Comptroller and the Presidents of the Boroughs of Manhattan and Queens, recommending that said offer be accepted:

(On April 11, 1912, the above matter was referred to said Committee.)

The New York Association for Improving the Condition of the Poor, United Charities Building, 105 East 22d Street, New York, April 8, 1912.

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

Gentlemen—In November, 1906, the New York Association for Improving the Condition of the Poor formally offered to erect (at a cost of \$250,000) a hospital for children suffering from non-pulmonary tuberculosis, on the condition that the City provide a suitable and adequate seashore site for such hospital, and that the City assume the maintenance and conduct of said hospital when completed.

For two and a half years prior to the above mentioned offer, our Association had conducted a small experimental hospital for outdoor sea air treatment of children crippled or otherwise disabled by non-pulmonary tuberculosis. As set forth in our offer of November, 1906, this form of the disease affects from four to five thousand children of the poor in this City and has long received special consideration from foreign states and municipalities. Over eighty seaside hospitals for such treatment are maintained along the European seashore.

Our Sea Breeze Hospital at Coney Island has been conducted as a demonstration here of the beneficial effect (long since proved in Europe) of sea air on this form of the disease. Of the 204 little patients admitted since June, 1904, 98 have been discharged cured, 14 arrested, 45 unimproved, 6 have died, and the remaining 41 are now in the hospital. Both the cures and improvements effected, and the large numbers we have been unable to receive, demonstrate the urgent need for a sea beach hospital adequate to the number of children suffering from this disease. The small experimental hospital maintained by this Association offers the only opportunity in this country for giving children crippled by this disease the benefit of the sea air treatment.

The present City administration has wisely decided to acquire the site known as Rockaway Park for health and recreational purposes, and with the appointment of the Commissioners of Estimate, who qualified on March 21, title thereto has vested in the City. This is a part of the site that the City decided in 1907 to acquire for the express purpose of devoting a portion of it to the above mentioned hospital and also of providing sites for one or more convalescent hospitals to be erected and maintained by charitable and benevolent societies of The City of New York.

Our Association, therefore, begs now to renew its proposal to erect and equip a hospital for the sole benefit of children suffering from non-pulmonary tuberculosis, at a cost of approximately \$250,000, on condition that the City shall provide therefor a suitable and adequate site on the seashore, and that the City shall assume the ownership, conduct and maintenance of said hospital when completed. Our Association has already caused its architects to prepare tentative plans, and is therefore in a position to break ground and proceed with the construction of the hospital almost as soon as the Board of Estimate and Apportionment shall assign a site and approve the plans.

If your Board shall accept our proposal we venture to suggest that a Committee of your number be appointed to confer with the Special Committee of our Association which has the matter in charge. Our tentative plans would then be submitted at

once to your Committee for examination, and as soon as the tentative plans have been agreed upon by the two committees we shall be in a position to proceed at once to secure final plans. Very truly yours,

THE NEW YORK ASSOCIATION FOR IMPROVING THE CONDITION OF THE POOR.

By JOHN A. KINGSBURY, General Agent.

Committee—Henry G. Barbey, Chairman; George Blagden, Albert G. Milbank, Augustine J. Smith, John Winters Brannan, M. D.

July 11, 1912.

To the Honorable Board of Estimate and Apportionment:

Sirs—At a meeting of your Board held on April 11, 1912, a communication from the New York Association for Improving the Condition of the Poor, dated April 5, 1912, was received, in which this Association renewed its former offer of November 28, 1906, to erect and equip, at a cost of approximately \$250,000, a hospital for children suffering from non-pulmonary tuberculosis, upon the condition that the City provide a suitable and adequate seashore site for such hospital, and that the City assume the maintenance and conduct of the said hospital when completed. This communication was referred to a special committee for consideration and report, and this Committee now begs to submit its findings and recommendations.

The proposition to establish a hospital for crippled children has been intimately connected from the first with the movement to secure for the City a seashore park for public health and recreation. This plan has been urged by a number of organizations ever since 1903, and in 1906 the New York Association for Improving the Condition of the Poor proposed to raise a fund to provide for the erection of such a hospital in the park which by resolution of this Board, adopted on September 30, 1904, it was proposed to lay out on the City map at Rockaway. This fund of \$250,000 was fully subscribed by July 1, 1906, and in the same year a special act of the Legislature (chapter 456 of the Laws of 1906) was passed which provided:

(1) That The City of New York may acquire a beach within or without the City limits for park purposes.

(2) That The City of New York may spend not more than \$2,500,000.

(3) That the Board of Estimate and Apportionment shall have the power whenever it shall have appropriated a sum which shall be sufficient, in its judgment, for the erection, maintenance and support of a hospital or hospitals to be erected in said seaside park, to withdraw from the jurisdiction of the Park Department as much of said seaside park as it shall deem proper, and to confer jurisdiction over the same upon the Board of Health or the Board of Trustees of Bellevue and Allied Hospitals or the Commissioner of Public Charities and to permit the use by said Board or Commissioner of the part of said park so withdrawn; and

(4) That The City of New York may assign parts of the beach, with the approval of the Sinking Fund Commission, to charitable and benevolent societies for convalescent hospital or hospitals.

The question of the acquisition of a park site under this act was taken up by the Board of Estimate and Apportionment upon several occasions, and finally, on December 14, 1911, by action of the Board of Estimate and Apportionment, the Corporation Counsel was directed to proceed with the acquisition by condemnation of a park site at Rockaway. On March 21, 1912, Commissioners were appointed, and title was taken to the property on that date.

We find, upon investigation, that the New York Association for Improving the Condition of the Poor has conducted a small experimental hospital for the outdoor sea-air treatment of children, crippled or otherwise disabled from non-pulmonary tuberculosis, which treatment has long received consideration from various cities and municipalities, and has proven so beneficial that over eighty such hospitals are now maintained along the European seashores. It is estimated that there are over 4,000 children in New York City afflicted with non-pulmonary tuberculosis. It is difficult to establish the exact number of children suffering from this disease; but we find that in the four years from 1905 to 1908, 3,197 new cases of bone tuberculosis were treated at the clinic of the Ruptured and Crippled Hospital of New York. As this disease is one of long duration, and this number of cases came to a single hospital, it is fair to assume that the above estimate of 4,000 cases at present existing in the City is an extremely conservative one.

The buildings which the Association proposes to erect and present to the City with the \$250,000 contained in its offer would consist of an administration building, two ward pavilions and a temporary boiler house; which accommodations would provide for one hundred and twenty (120) to one hundred and fifty (150) patients and the requisite staff. On the basis of the per capita cost of the Association at its Sea Breeze Hospital during the past several years, the cost of maintenance for this number of patients would range from \$60,000 to \$72,000 per year.

Your Committee has not had the opportunity to go into the matter of detail as to the location of the proposed hospital, nor as to the proposed plan of the same; but it has, after careful consideration, reached the conclusion that it is extremely desirable that such a hospital be established and maintained by the City, and that it would be desirable to accept the offer of the New York Association for Improving the Conditions of the Poor; and, therefore, recommends:

(1) That, by virtue of the authority vested in this Board by chapter 456 of the Laws of 1906 entitled, "An Act to Establish and Maintain a Seaside Park for the Health and Recreation of the Citizens of New York," and which became effective on May 15, 1906, The City of New York accept the offer of the New York Association for Improving the Condition of the Poor, dated April 5, 1912, under the terms of which the said Association will build and equip a hospital for the sea-air treatment of non-pulmonary tuberculosis in children; the said hospital to cost approximately \$250,000, and to be presented to the City when so built and equipped, upon condition that the City shall provide therefor a suitable and adequate site on the sea shore, and that the City shall assume the ownership, conduct and maintenance of said hospital when completed.

(2) That the undersigned Committee of this Board be continued with power to confer with the special committee of the New York Association for Improving the Condition of the Poor, and to approve the plans for the proposed hospital, and, in conjunction with the said committee of the New York Association for Improving the Condition of the Poor, to select a suitable and adequate site on the ocean shore at the new seaside park at Rockaway, and to recommend to the Board of Estimate and Apportionment at its next meeting the withdrawal of the said site from the jurisdiction of the Park Board, pursuant to the provisions of section 4, chapter 456 of the Laws of 1906. Respectfully submitted,

JOHN PURROY MITCHEL, President, Board of Aldermen; WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Borough of Manhattan; MAURICE CONNOLLY, President, Borough of Queens; Special Committee.

The following resolution was offered:

Resolved, That, pursuant to section 4, chapter 456, Laws of 1906, the Board of Estimate and Apportionment hereby accepts the offer of the New York Association for Improving the Condition of the Poor, as set forth in a communication dated April 8, 1912, to build and equip a hospital for the sea-air treatment of children suffering from non-pulmonary tuberculosis, said hospital to cost approximately two hundred and fifty thousand dollars (\$250,000), and to be presented to The City of New York when built and equipped, the City to provide therefor a suitable and adequate site on the sea shore and to assume the ownership, conduct and maintenance of said hospital when completed; and be it further

Resolved, That there be continued the Select Committee of the Board of Estimate and Apportionment, appointed April 11, 1912, consisting of the President of the Board of Aldermen, the Comptroller, the President of the Borough of Manhattan and the President of the Borough of Queens, with power to confer with the Special Committee of the New York Association for Improving the Condition of the Poor; to approve the plans for the proposed hospital; to select, in conjunction with the Special Committee of said Association, a suitable and adequate site on the ocean shore at the new park at Rockaway, and to recommend to the Board of Estimate and Apportionment the withdrawal of said site from the jurisdiction of the Park Board, pursuant to the provisions of section 4 of chapter 456 of the Laws of 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Committee (consisting of the Presidents of the Borough of Manhattan and Richmond) on the Investigation of the Department of Health, Bellevue and Allied Hospitals and Public Charities, covering the Division of Communicable Diseases in the Department of Health.

Which was ordered printed in the minutes and filed.

A REPORT ON THE DIVISION OF COMMUNICABLE DISEASES, DEPARTMENT OF HEALTH, WITH CONSTRUCTIVE SUGGESTIONS, SUBMITTED TO THE BOARD OF ESTIMATE AND APPORTIONMENT BY THE SPECIAL COMMITTEE ON DEPARTMENTS OF HEALTH, HOSPITALS AND CHARITIES, MAY, 1912.

July 11, 1912.

To the Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—Herewith please find a report prepared on the Division of Communicable Diseases of the Department of Health, under the supervision of your Committee on Health, Hospitals and Charities. This report is based on a co-operative inquiry made with the assistance of the Health Commissioner and the officials in charge of the Division of Communicable Diseases, by Dr. Louis Dublin, employed by the Board of Estimate, and by representatives of the Bureau of Municipal Research.

The report has been submitted to the Health Department officials, and conferences have been had with them upon its recommendations. We are informed that a number of the suggestions it contains have already been put into effect. We call your attention especially to pages 1 and 2, containing a summary of the report's recommendations.

Respectfully yours,

GEORGE McANENY, Chairman,
GEORGE CROMWELL,
Committee on Health, Hospitals and Charities.

INTRODUCTION TO REPORT ON DIVISION OF COMMUNICABLE DISEASES.

During conferences between the Chief of the Division of Communicable Diseases and the Special Investigator of the Board of Estimate and Apportionment Committee on Health, Hospitals and Charities Inquiries, as well as with other committee representatives, several recommendations suggested by the inquiry were approved by him and have since been put in practice. Some of the recommendations now appearing in this report have not, therefore, the insistent force that they possessed when they were informally presented in these conferences; since, however, their elimination would necessitate a re-examination of the work of the Division, the report repeats them with the acknowledgment that the Committee has always found the Chief of the Division ready to co-operate in advancing the best interests of the administration.

The Following Recommendations Are Submitted:

- 1—Require (the clinic) Physician to visit cases prevented by illness from attending the clinic and give special instructions to the Nurses respecting them.
- 2—Make the nursing of bed cases a duty of the Nurse until institutional care is provided.
- 3—Provide educational courses for Nurses to include lectures and conferences with experts in social work, Physicians, etc.
- 4—Open new clinics in Brooklyn, especially in the Brownsville section, where the Bradford Street Clinic is overcrowded.
- 5—Require full time service of Borough Chiefs.
- 6—Require Nurses to report fuller details as to home conditions of patients under special supervision.
- 7—Assign two Nurses to "trace" lost cases and use the success of this "tracing" as a gauge of the efforts of the regular Nurse to find cases.
- 8—Reduce to a minimum the number of "inspection" visits.
- 9—Urge upon the Board of Education the necessity of increasing the number of open-air classes and submit to it lists of children showing symptoms of tuberculosis and of anaemic children from tuberculosis families, etc.
- 10—Co-operate with the Division of Child Hygiene in the supervision of children suspected of tuberculosis but not showing tubercle bacilli in the sputum; keep a record of instruction given parents in respect of the care of tuberculous children and supervise their health history.
- 11—Have the Hospital Admission Bureau classify hospitals and sanatoria according to their equipment for treatment.
- 12—Admit to hospitals only such patients as belong to the class which the particular hospital where a vacancy exists is prepared to treat, even if patients on other lists have waited longer.
- 13—Equip Riverside Hospital as a detention hospital for forcible removals.
- 14—Bend all efforts to remove to Riverside all homeless cases that are unfit to be at large and are not of a character to be sent to other hospitals. Pursue with energy the policy of segregating the "rounders" both from the community and other hospitals.
- 15—Restore Otisville to its original use as a sanatorium for incipient cases. Instruct the Admission Bureau to exclude in the future all advanced cases.
- 16—Diminish the proportion of short term stayers at Otisville by using ferry boats as observation camps for candidates.
- 17—Extend the follow-up of discharged cases to include supervision of apparently cured cases returning to work. Assist such cases to find suitable employment.
- 18—Make a thorough investigation and include the results in periodical reports of the histories of cured or improved cases leaving Otisville to ascertain
 - (a) The permanency of cure or improvement.
 - (b) Relapses, readmissions to hospitals or deaths.
 - (c) The apparent causes of such relapses and deaths.

Study of the Division of Communicable Diseases of the Department of Health with Special Reference to the Work on Tuberculosis.

The control of tuberculosis outside of hospitals is the chief function of the Division of Communicable Diseases. In schools the Division of Child Hygiene examines for tuberculosis and, in co-operation with the Division of Communicable Diseases, excludes cases with active sputum. Upon orders of the Division of Communicable Diseases, the Division of Contagious Diseases has in the past performed disinfection and fumigation. Study of tuberculosis and production of tuberculin is undertaken by the Research Laboratory. The tuberculosis hospitals of the Health Department are separately administered under the General Medical Officer. With these qualifications the Division of Communicable Diseases has all the powers and resources of the Department of Health in controlling and stamping out tuberculosis, and the Chief of the Division is responsible for the results obtained.

For purposes of analysis, the activities of the Division of Communicable Diseases, in so far as they are directed toward the control of tuberculosis, may be grouped under the following heads:

- I—Supervision by executive and Borough officers.
- II—Nursing service.
- III—Inspection service.
- IV—Tuberculosis clinic service.
- V—Selection of cases by the Hospital Admission Bureau.

Included in the report, however, are studies of the Riverside Hospital and the Otisville Sanatorium.

I.—SUPERVISION BY EXECUTIVE AND BOROUGH OFFICERS.

The executive office of the Division of Communicable Diseases is located in the Borough of Manhattan and serves as headquarters for the Chief of the Division and the Superintendent of Nurses. The Chief of the Division is responsible to the Sanitary Superintendent for all activities of the Division.

Under the Division Chief and responsible to him are Borough Chiefs who are charged with supervision of their respective Boroughs. In each Borough office is kept a register of all cases of pulmonary tuberculosis reported in the Borough, from which cases for investigation and supervision are assigned by the Borough Chiefs. In this way reports from Nurses, Inspectors, clinic Physicians and clinic Helpers all come to the Borough office, as do all requests for forcible removals of patients, renovation, fumigation, etc. A comprehensive description of the existing organization and procedure of the entire Division has been prepared by the Director and will not therefore be included in this report. Only those facts concerning which it is desired to comment will be described.

Perhaps the most important activity in the Borough office is the registration of cases of pulmonary tuberculosis. Two main files, the record file and the house file are kept.

In the first, each case has an individual record card on which items like the following are entered:

Name, age, first address, sex, marital state, occupation, nationality, etc. With each record card is filed a so-called "history card," giving information as to the character of the house, rooms occupied by patients, condition of other members of the family, economic conditions, etc. The second file contains the house cards, on which are entered the following data: Street and number; Borough; number of stories in the house; material of which constructed; built before or after 1901; number of cases of tuberculosis reported from the house prior to and since 1910.

After careful examination of the routine at the Borough Office, it is the opinion of the Investigator that the general method of registration is to be highly com-

mended. It is both economical and, by a system of checks, fairly accurate. It is necessary, however, to call attention to the following shortcomings:

- 1—The Register does not accurately indicate the number of cases in the City.
 - (a) The lowest number of cases enrolled in Manhattan, 1910, as stated in the quarterly reports, is 17,484, 37 per cent. below the maximum of that year.
 - (b) The case rates and the death rates in the various Boroughs show improbable relations.
 - (c) In 1910 the death list reported 2,809 cases of tuberculosis which during life had not been reported to the Borough officers. What per cent. of this number had lived in the City too short a time to be considered residents is not known, and allowance must be made for recent arrivals. By estimating five living cases to each death, there must have been, at least during the year, a considerable percentage of 14,000 unregistered cases that should have been reported.
 - (d) In 1910 there were 8,692 reported deaths of pulmonary tuberculosis. This represents the complete death list as corrected by the Registrar of the Department of Health, and includes only deaths occurring within the City limits. The number of out-of-town deaths for the same year is not available, but would doubtless fully offset the number of those drifting into New York to die.

Each death, conservatively estimated to represent five living cases, indicates a total of 43,500 living cases of pulmonary tuberculosis. The number of all forms of tuberculosis recorded in the register at the end of the year is only 27,477. Of this number 6,728 were not found, and we may conclude that a maximum of 16,000 undoubted tuberculosis cases are unregistered in the City and receive no supervision or treatment from the Department of Health.

- 2—The cards are often written carelessly by the Clerks in the Borough offices, and it is frequently difficult to decipher their records.
 - 3—The cards do not provide space for recording changes in the condition of the patient or in the home resulting from clinic attendance or nursing service.
 - 4—Lack of adequate Borough supervision is the most important factor in this deficiency. The Borough Chiefs are part-time employees. In Brooklyn the Borough Chief is on duty from 3 to 4 hours a day, and in Manhattan an even shorter time, yet it is the duty of each to direct the antitoxin work, as well as the investigation of typhoid and meningitis cases in his Borough. Consequently there is little time for the Chiefs to control the operations of the several agencies involved in tuberculosis work, so that the important details of this branch of the service are managed in routine fashion by young clerks.
- Such a condition of affairs can lead only to lax methods of registration. It is, therefore, recommended that every effort be made to employ competent Borough Chiefs on a full time basis, at the same time increasing their responsibility and salary for results in their respective Boroughs.

II.—THE NURSING SERVICE.

The nursing service comprises the larger part of the machinery for the sanitary supervision of tuberculosis. In all there are about 130 such District Nurses under the charge of a Superintendent, who reports directly to the Chief of the Division.

The orders of the Superintendent are given to Supervising Nurses, of whom there are one or more in each Borough, who, in turn, keep in direct touch with the District Nurses, transmitting orders, giving instructions, correcting faulty reports, investigating difficult cases, etc. Finally, in each Clinic District, one Nurse is designated as the Captain. She performs the duties of a District Nurse, but, in addition, shares responsibility for proper supervision of the work in her District.

In general, the work expected from the nursing staff is the sanitary supervision of registered cases, each Nurse having a file of the cases of pulmonary tuberculosis in her District. This file is subdivided under six heads as follows:

1. Cases under private physicians.
2. Cases under clinics.
3. Cases in hospital.
4. Cases in sanatoria and out of town.
5. Cases not found.
6. Cases at home.

On August 5, 1911, the total register of cases was as follows:

	Number.	Per Cent.
1. Cases under private physicians.....	2,637	8
2. Cases under clinics.....	4,581	15
3. Cases in hospital.....	4,113	13
4. Cases in sanatoria and out of town.....	3,378	11
5. Cases not found.....	9,271	29
6. Cases at home.....	7,670	24
Total	31,650	100

The distribution of cases in the six files does not vary widely, as is shown by comparing the percentages for August 5, 1911, with those for December 31, 1910, and March 31, 1911, respectively.

	Per Cent.		
	December 31, 1910.	March 31, 1911.	August 5, 1911.
1. Cases under private physicians.....	10	9	8
2. Cases under clinics.....	21	20	15
3. Cases in hospital.....	13	12	13
3. Cases in sanatoria and out of town.....	9	9	11
5. Cases not found.....	25	24	29
6. Cases at home.....	22	26	24
Total	100	100	100

1—Cases Under Private Physicians.

The smallest group is that under the care of private physicians. This may be understood from the following considerations:

- (1) Tuberculosis is primarily a disease of the poor.
- (2) It disables wage earners during their most productive period.
- (3) It is protracted in its course, exhausting the little savings of the industrial classes whom it affects, soon throwing them upon the community for proper care.

Cases under private physicians, therefore, represent, in the main, the higher social groups of the community and are not visited by the District Nurse unless so desired by the physician himself. Nurses must, however, learn every month through the Borough Chiefs from the physician whether the case is still under his care and whether the address is the same as that on record. Should no reply be received within 15 days, the Nurse must visit the premises and make note of the condition of the patient, as in "at home" cases.

2—Cases Under Clinics.

These form 15 per cent. to 20 per cent. of the total register. Study of the statistics collected by the Association of Tuberculosis Clinics of Manhattan, covering about 10,000 cases for the period from July 1, 1910, to June 30, 1911, shows that at the time of diagnosis 35 per cent. of the clinic cases were in early stages of the disease, 50 per cent. were moderately advanced and 15 per cent. were far advanced. The homes of clinic cases are visited regularly by the Nurses (in the Department of Health clinics by Department of Health Nurses; in non-departmental clinics by the nurses employed by the clinics). This discussion will be limited to the Department of Health clinics and their staff of District Nurses.

It is the duty of the Nurses to look into the essential details in the homes of the patients, to know whether sanitary precautions are taken as to sputum, sleeping quarters, personal relations, etc., and to make note on the history card of other findings, including a record of the temperature and pulse of the patient. Visits are made to such clinic cases once a month.

In connection with the clinic work it is the duty of the Nurses to maintain regularity in the attendance of their patients at the clinics and at the same time to co-operate with the Clinic Physicians, serving the latter as sources of information concerning the conditions prevailing in the homes of their patients. In addition, if their conditions demand institutional care, the Nurses are expected to interest their patients in

hospitals and sanatoria and to make every effort to expedite the commitment of such cases to institutions after application has been made.

From the viewpoint of these requirements, the results obtained by the District Nurses are not especially impressive. In the first place, as will more carefully be indicated in a later section of this report, clinic cases are strikingly irregular in attendance. In the second place, Nurses, in the treatment of their cases, do not at present co-operate as fully as is possible with clinic Physicians. It is exceptional for Nurses to be present at the time their own patients are examined by the Clinic Physicians. As a result, the Physicians most often know little or nothing of the home conditions and the Nurses learn little of the physical condition of their patients. In view of the limited hospital and sanatorium facilities at the disposal of the City it is only fair to say that Nurses should not be held responsible for the distressing conditions now prevailing in the inactivity of Nurses in the early admission of cases to hospitals and sanatoria.

3—Cases in Hospitals.

From 12 per cent. to 13 per cent. of the registered cases are in the hospitals of the City. It is the duty of the Nurse to visit the premises of the patient as soon as he has been admitted to the hospital, to enter the fact of his admission on the record-card, and to take measures for the proper disinfection of the premises. This applies equally to clinic as well as to "at home" cases. Nurses are expected to visit the families of such cases once a month.

4—Cases in Sanatoria and Out of Town.

These form a somewhat smaller group than the hospital cases. The duties of the Nurse for this group are similar to those described for hospital cases. They need no further comment.

5—Cases Not Found.

Usually these form the largest group of the six, containing at least one-quarter of the total. They represent cases that, through one cause or another, have got out of the control of the Nurses of their district. It is the duty of the Nurse to make every effort to locate such patients. The large proportions of this group, however, indicate the incompleteness of the work now being performed by the Visiting Nurses.

In a city like New York, with its large proportion of aliens, cases will get lost from active supervision, but it is hardly reasonable that with 130 Nurses at work whose business it is to keep in touch with such cases, 3,000 should develop in the course of seven months in 1911. Many "not found" cases arise primarily from the system of reporting over the telephone. Another source of confusion lies in carelessness on the part of the Nurses and office Clerks in making out their history and record cards. Often they are satisfied with the initial instead of the full first name of the patient, or they neglect to record the floor or number of the apartment in the tenement in which the case resides. A goodly proportion of the cases, however, is undoubtedly due to incomplete effort on the part of the Nurses themselves. A detail of Special Investigators or Nurses for the discovery of "not found" cases would doubtless restore many of the "not found" cases to their proper place, either in the "at home" or clinic files.

6—Cases At Home.

These form a group nearly as large as the "not found" cases and include the large number of patients reported by dispensaries; patients discharged from hospitals, sanatoria, tuberculosis clinics; patients reported by private physicians with requests that they be visited, etc. Departmental Nurses visit these cases regularly once a month in all districts and are expected to urge the patient to attend the clinic of the district.

In many ways the "at home" cases represent the most critical group in the sanitary supervision of tuberculosis. They include, on the one hand, the favorable cases that have returned from the sanatoria and a large number of cases in the early stages of the disease still able to work. Such cases are often misled into the belief that they are well enough to care for themselves and that they do not need the help of the clinic. On the other hand, a large number are cases who, because of the unfavorable turn in their condition, can no longer attend the clinic and who, because of the lack of hospital facilities, grind out their last days in their tenement homes. In this lot should also be included that large number of discharged hospital cases who, knowing the helplessness of their condition, desire to spend their last days surrounded by their families.

From these facts it is quite clear that much of the machinery of the division of communicable diseases should be concentrated on such cases in order to prevent the development of new infections among the other members of the family. Yet the contact is established by the Nurses who visit them in routine fashion once a month.

It is important that since September 1, 1911, modified instructions have been in operation for the guidance of District Nurses in the care of new "at home" cases. In accordance with these instructions, cases are subdivided into two classes:

- (a) Under sanitary supervision, and
- (b) Under observation only.

Those coming under the first group are cases where the sanitary conditions are found unsatisfactory, where the Nurses find it necessary to submit various recommendations, or where they state in their reports that instructions have been given to the patient and his family as to the precautions which should be observed. Every such case must be revisited by the Nurse every few days until the conditions complained of have been corrected. During this period while the case remains "under sanitary supervision," the history card is not filed as heretofore, but is kept with the Borough Chief, who now becomes responsible for the proper disposition of such cases.

In cases "under observation only," the conditions meet with the sanitary requirements of the Department. These need to be visited only once every two months, or even at longer intervals at the discretion of the Borough Chief. In this way it is hoped that the concentrated attention of the Nurses may be on those cases that need them most and at the same time that many complaints now received at the Borough offices against the needless visits of Nurses to families well able to take care of themselves may be done away with.

This change in method will undoubtedly increase the effectiveness of the nursing service. Yet too much must not be expected from it alone. Those "under sanitary supervision" include the very worst patients where personal conditions, character of homes and surroundings are the poorest. Even though repeated at shorter intervals than formerly, such cases need more than mere inspection. Many of them are in need of active medical and nursing treatment as well as help in the proper care of their premises, and it will not be until such aid is given that good results will be obtained.

The Nurses are handicapped by ignorance of the foreign languages spoken by the large number of their cases. As their work is almost all verbal they perform little actual service for the patients themselves and, as a result, they are often ill-received and do not win the confidence of many of their cases. Furthermore, they succeed in getting few new patients to come to a clinic and in general are not able to keep up the regular attendance of the clinic cases. It is therefore recommended:

(1) That hereafter greater efforts be made to employ such Nurses as are to some extent experienced in social work, and that credit for training in social work be given at examination and that Nurses be regularly brought together, say once a month, for instruction along social-service lines. In this City it would be an easy matter to obtain for this purpose the services of the staff of the School of Philanthropy, prominent physicians and others who have made a specialty of this line of work.

(2) That the nursing service be made a close integral part of the clinics of the several districts, each group of Nurses acting as a hand to be wielded by the clinic head. Nurses should report daily to the Supervising Nurse of the clinic and not, as at present, to the Borough Chief who, occupied with a multitude of duties, has no time to go into the operations of the individual Nurses. Under such an arrangement the Supervising Nurse of the clinic would be responsible for the work accomplished by each one of her Nurses. It should be the duty of the Supervising Nurse to report regularly every three months, or at shorter intervals, concerning the efficiency of each Nurse. The report form should include items of the following character:

- a—Number of cases of each type.
- b—Success in maintaining regular attendance of clinic cases.
- c—Number of forcible removals, disinfections and renovations.
- d—Number of "at home" deaths in the period.
- e—Number of night visits made.
- f—Number of cases relieved by charitable societies, auxiliaries, etc.
- g—Number of removals to more sanitary quarters.
- h—Number of homes improved in sanitary condition.

By having the Supervisors of Nurses in the several boroughs report on the Nurses in their respective territories as above suggested, it is possible to develop greater supervision over the nursing service than now prevails.

(3) That Nurses be detailed to more actual nursing in the homes of clinic and

"at home" cases, such service always to be undertaken under the supervision of the Clinic Physician. This should be a part of a policy of caring for bed cases during the time they are waiting to be admitted to hospital.

(4) That in their daily reports Nurses be required to note such conditions prevailing in the homes of their cases as would materially affect the welfare of their patients and the other members of their families.

(5) That an attempt be made to keep Nurses in their respective districts for considerable periods without transfer. In a study of "at home" cases a large proportion of the cases were found to be visited by as many as four or five Nurses, each one of whom had to acquaint herself all over again with the details of the district.

III.—THE INSPECTION SERVICE.

At the present time the Division employs a small number of Inspectors who are especially trained in the diagnosis of pulmonary tuberculosis. It is their duty to examine suspected cases of tuberculosis where the patients will not or cannot visit the nearest Department of Health clinic. Inspectors also investigate complaints, visit all cases of children under sixteen years of age suffering from pulmonary tuberculosis in which the attending physician will not certify in writing that the child in question is sufficiently well to attend school, and take charge of the forcible removal of cases to hospitals, being present when the ambulance arrives. Finally, they visit lodging house cases in place of the District Nurses.

This important branch of the work of the Division is in poor condition. In Manhattan there are but two Tuberculosis Inspectors working on a part time basis, and in Brooklyn one. An examination of the daily reports made by the Brooklyn Inspector showed that during the month of April, 1911, he visited 80 cases, giving in all 78 hours of his time to the Department. In July, 1911, he made 62 visits, giving in all 62 hours of his time. Of these 62 cases visited, 10 were not found at home at the time of the visit, 5 refused examination and as many more visits involved no examination of the patient, leaving about 40 cases for real diagnosis. At this rate the Brooklyn Inspector received more from the City per case than he would receive in private practice.

Because of the well known fact that new cases are made in the homes of the far advanced cases, provision should be made for the regular inspection of cases in the homes of advanced tubercular patients when the Nurse suspects that other members of the family are infected. If the Nurse, after two or three weeks, fails in her attempts to bring any suspected cases to a clinic, the Inspector should be sent to examine the cases in their homes. In this way a considerable number of incipient cases would undoubtedly be discovered and be put in a fair way of being cured, instead of being allowed to run undiscovered until the symptoms of the disease become so striking as to bring the cases voluntarily to the clinic in a more or less advanced condition. Ultimately this system of home inspection should be extended to include the examination of all members of the families of advanced consumptives, but it is better at this time to begin with the small group outlined above. Such Inspectors should be men of recognized ability as diagnosticians of tuberculosis. For this service a number of such men are available among attending clinic Physicians, at present employed on the part time basis, often for only three afternoons a week.

IV.—TUBERCULOSIS CLINIC SERVICE.

To understand the work of the tuberculosis clinics of the Department of Health, it is necessary to note that they share the total work with an even larger number of private organizations. This is especially true in Manhattan, where they are three out of nineteen. In Brooklyn they are four out of six. In the other Boroughs all are Departmental clinics, two being located in The Bronx and one each in Queens and Richmond. In other words, in the Association of Tuberculosis Clinics there are 11 Departmental clinics out of a total of 29.

In Manhattan and The Bronx both the Departmental and the private clinics form an Association of Tuberculosis Clinics. This association requires certain definite conditions for membership, as follows:

- 1—That each clinic treat its tuberculosis cases as a separate group.
- 2—That each clinic maintain home supervision of all its cases by a Graduate Nurse especially assigned to this work.
- 3—That its operations be limited to a certain district, and that all cases living outside of this district be transferred to the clinic of the district within which they live.

This association makes possible the most active co-operation among clinics throughout the two Boroughs. It facilitates the transfer of patients from one clinic to another and makes possible home supervision by the Department of Health of such cases as do not maintain their attendance at the clinics. All clinics belonging to the association report monthly to the secretary. These reports are open to the inspection of the directors of the association, who may compare the results obtained by the several clinics and guide the poorer ones by the better results obtained in the older and better established institutions. Nurses are occasionally transferred from one clinic to another, and other aid often is given to bring an inadequately equipped clinic up to standard. Indeed, it is to the existence of this association that much of the excellent tone pervading the tuberculosis clinics of Manhattan and The Bronx is due.

The six Brooklyn-clinics are also united in an Association of Tuberculosis Clinics, but there is not the same central control as in Manhattan.

The clinic work is the best organized of the several activities of the Department of Health in its campaign against tuberculosis. Not only is it the earliest activity of the Division, but it has from the beginning been fortunate in obtaining the services of men of excellent training and ability. As at present organized, the clinics are under the control directly of the Chief of the Division of Communicable Diseases. In addition each Borough has a Chief of Clinics in charge of the clinics in his Borough.

To each clinic are assigned two Attending Physicians for each class of patients; assisting Attending Physicians, available in case of absence of Attending Physicians; Attending Laryngologists, and in one clinic a Radiographer. Each clinic has a Nurse in charge, and she has at her disposal the services of several Nurses from the staff of Visiting Nurses of the district. In Manhattan a Nurse is detailed to do special work for the Women's Auxiliary of the tuberculosis clinics of the Department of Health.

In most cases the clinics are the first agencies to which those suffering from tuberculosis or suspecting themselves infected with this disease turn. As a result most of the cases now in the register in the Borough offices were originally reported from the clinics. In first coming to the clinic, the name, address, age and other details concerning the personal history of the patient are entered in a journal and an admission card, numbered to correspond with the history card, is given to him. If found upon examination to be clearly tubercular, the patient is at once registered as a positive case. If the diagnosis is clearly negative, the patient is discharged. In all doubtful cases the patient is at the same visit re-examined by another Physician, thus receiving the benefit of an examination by at least two Physicians before a diagnosis is reached. When the case is definitely diagnosed as tuberculosis, the patient is generally told of the findings, is instructed as to the precautions it will be necessary for him to take to avoid infecting others and to improve his own condition, and is advised to attend the clinic regularly, as often as once a week. During this early period in the treatment, the case is under observation by the Physician in charge, who has in mind the proper disposition of the case to a sanatorium or hospital, if the conditions so demand.

All new positive cases of tuberculosis discovered by the clinics are as a matter of routine referred to the Captain of the Visiting Nurses of the district. The Captain then assigns the case to one of her staff, who visits the patient's home at least once a month. The Nurse fills out the regular history card on the home conditions of the patient as above described. It is also the duty of the Nurse to bring the history card to the attention of the Physician at the clinic, and it is planned, though not always observed, that the Nurse be present when the patient comes for his regular weekly visit to the clinic. Cases are kept in the active clinic file for one month, and if no visit is made in that time, the case is discontinued and the patient at once transferred to the District Nurse as an at home case.

Important agencies co-operating with the departmental as well as private clinics are the several ladies' auxiliaries. These do invaluable work in directing the boat camps in Manhattan and furnishing worthy cases reported by the clinics with charitable aid, including such items as food, clothing, rent, outfits for Otisville, and additional milk and eggs as extra diet. These auxiliaries, however, are highly developed in Manhattan alone, no similar agencies existing in the other Boroughs. In Brooklyn no auxiliary exists, the only organization to which Nurses can turn for relief for worthy cases being the Brooklyn Bureau of Charities and its Committee for the Prevention of Tuberculosis. This society is extremely limited in its power to relieve the many cases that need aid. The District Nurses of the Brooklyn clinics have collected a small fund which they themselves administer for their own cases, but this is too small to be of any considerable value.

Turning to the activities of the tuberculosis clinics themselves, it is found that they at the present time are the most active centres for the control of the disease. The Association of Tuberculosis Clinics in Manhattan requires of all its constituent clinics a monthly report regarding the volume of work accomplished and a classification of the discharged cases according to the reason for their discharge, the duration of treatment, and the condition of the patients at the time of discharge as well as at admission. Of this information the census of admittance and discharges is tabulated. According to the figures of the association, 30,399 were reported as treated during 1910, and 28,208 during January-November, 1911; but as these figures include many cases readmitted and others transferred from one clinic to another, the actual number treated cannot be ascertained.

The data on discharges obtained from the association is limited to the period of July-December, 1910. During this time 12,044 cases were discharged, of whom 4,532 have only a single record of clinic attendance, a large number being transferred from one clinic to another, sent to hospitals or left the City, a still larger number found at the first examination non-tuberculous. The attendance of the 7,512 cases attending more than once was as follows:

	Number.	Per Cent.
Attended 2 to 29 days.....	3,314	44.1
Attended 1 to 3 months.....	1,549	20.6
Attended 3 to 6 months.....	1,155	15.4
Attended 6 to 12 months.....	904	12.1
Attended 12 to 24 months.....	360	4.8
Attended 24 to 36 months.....	137	1.8
Attended 36 months or over.....	93	1.2
	7,512	100.0

In spite of the discouraging condition as to length of continuous treatment at the clinics, these institutions are becoming important agencies for the cure and arrest of the disease. The physical condition of 3,213 cases discharged as tubercular or doubtful after at least one month's treatment at the clinics of the association, is given in the following tables:

Condition on Admission.

	Number.	Per Cent.
Incipient	805	25.0
Moderately advanced	1,537	47.9
Far advanced	520	16.2
Doubtful	351	10.9
Total	3,213	100.0

Condition on Discharge.

	Number.	Per Cent.
Apparently cured	62	1.9
Arrested	229	7.1
Improved	1,232	38.4
Progressive	1,427	44.4
Died	167	5.2
Doubtful	96	3.0
Total	3,213	100.0

As might be expected, individual clinics vary considerably among themselves in the results of their treatment. Thus, at Bellevue of 279 cases discharged during 1910 39 per cent. were arrested in the course of the year, 31 per cent. were improved, 26 per cent. were progressive and 4 per cent. died. Such remarkable figures can be ascribed only to the fact that Bellevue has carried the clinic work to the furthest point in effectiveness. Not only is the clinic fortunate in the possession of highly trained and enthusiastic Physicians, but, what is equally important, it has developed a remarkably efficient system of social service treatment and intensive care of individual patients. To this must be added the fact that the clinic has at its disposal a day camp well supported by an active auxiliary for the treatment of its incipient cases, as well as a ward in the hospital close by for the more advanced cases.

Comparing these results at Bellevue with those obtained at one of the Department of Health clinics, we find that of 190 patients discharged for various causes in 1910, 10.5 per cent. were arrested, 45.3 were improved and 44.2 were progressive. The difference in results obtained between these two clinics is attributable to several factors, such as the greater facilities at the command of the Bellevue clinic in the matter of day camp and follow up work and the handicap under which the Health Department clinic is laboring in not being able to choose its Nurses, but having to take them from the Civil Service list, where the social service factor does not enter to any great extent.

Considering the tuberculosis clinic situation as a whole, a number of considerations must be noted. In the first place, in spite of the activity of the Association of Tuberculosis Clinics, there is as yet no complete administrative control over all the clinics of the City. The private clinics differ considerably in their methods of registration as well as in the organization of the clinics themselves. About one-half still maintain their work with unpaid Physicians. Others are housed in poor quarters, having in some cases little more than one room. Moreover, the divided responsibility is extremely wasteful of effort. Patients often move from one district to another and are then transferred to the clinic of their new district. In such cases, the histories and other data recorded in the first district are not available to the authorities of the new one and the general routine necessary for new cases must be gone through to obtain information concerning the patient, his home conditions, etc.

In view of this situation the question suggests itself whether the City would be justified, in its desire for complete administrative control over the situation, to take over all the private clinics, with the exception of those that are willing and able to conduct their work along the lines outlined by the Director of Clinics of the Department of Health. In all, this would affect 14 private clinics in Manhattan and two in Brooklyn, of which four or five of the best could be counted on to make the necessary changes in their methods of registration and general procedure to bring them into line with the methods prevailing in the department clinics at the present time. The other clinics for the most part include the less efficient institutions, and it would be a distinct gain in the campaign to have them taken over by the Department.

If this change in the control of the tuberculosis clinics of the City could be accomplished, it would be possible to make of each clinic a central institution for the control of all cases of tuberculosis in the district. Its Nurses could at once be made responsible for all cases, whether clinic or at home cases, and Supervisors of Clinics, having direct charge of the Visiting Nurses, would obtain better co-operation between the clinic Physicians on the one hand and the Nurses on the other. More important, however, is the possibility that such a change would offer for the administration of the plans suggested in the preceding section, namely, that provision be made, first, for the treatment in their homes of certain classes of advanced cases during the period while they are awaiting admission to the hospitals, and, second, for the early diagnosis of new cases in the homes of advanced patients through the extension of the present system of inspection.

Considering the Department of Health clinics alone, there are limitations in their operations. First is the irregularity in attendance. A study of the weekly reports of the four Brooklyn clinics covering a period of several months showed that at the end of any one month from 40 per cent. to 50 per cent. of the total active list was made up of new cases which had been admitted during the month. In other words, about one-half of the cases on the active list drop out in the course of each month, to be replaced by a new group of clinic cases. While there are, to be sure, many clinic cases that attend regularly for six months or even longer periods, the large majority of patients attend clinic for a few weeks only, then becoming "at home" cases and returning to the clinics only when their condition becomes worse.

Another limitation is the lack of co-operation between the clinic Physicians and the district Nurses. In spite of the distinct instructions described at the beginning

of this section, that cases be urged to be present at stated hours weekly when the same attending Physician and the district Nurse are present, many cases were found receiving treatment from different Physicians each week. The district Nurse who knew the home conditions of the patient was usually not present. As a result, Physicians are as a rule not well informed as to the conditions prevailing in the homes of their patients, nor are the Nurses able to learn from the Physicians the physical condition of their cases in order to be able to serve them in the best way possible.

A third limitation is the incomplete treatment accorded clinic cases. Again and again it has been the experience of attending physicians to find their cases coming to the clinic in poor condition and showing a high temperature and other signs of physical distress. On the other hand, other cases, regular in attendance while able, become irregular because of the serious turn which their disease has suddenly taken. Often word is sent through some other member of the family that the patient is too ill to come. At the present time such cases receive no departmental care during this critical period when they are extremely active agents in the infection of others. During the period of waiting for admission to a hospital the Clinic Physician who has treated the case should be sent to the home of the patient to give whatever medical treatment the condition of the patient demands, and the Visiting Nurse should take active charge of the case under the supervision of the attending physician. It should be the duty of the Nurse in such cases to see that the fever patient keeps to his bed, that he be bathed, and that the rooms be given a thorough cleaning, employing the scrubwomen of the clinic for that purpose. Such occasions as these would offer excellent opportunity to the Nurse for instructing the other members of the family in the proper care of the patient and the home. This new activity of the nursing service should not ordinarily confine a Nurse to the premises of the tubercular for an entire day, for it would be expected of her to come in and perform her necessary duties expeditiously, leaving as much to be done by the members of the family as is possible. At the same time she should do all in her power to urge the transfer of the case to a hospital. Such intensive treatment of far advanced cases would serve to put the nursing as well as the clinic service on a much better footing with the tubercular population—excellent; the only way in fact to preserve the right relationship between Nurse and patient—and would bring out of the latter such co-operation as would undoubtedly help in checking the tide of secondary infections.

To do this work will not involve the employment of any large number of additional Nurses. By a proper readjustment of the work now being performed by the Nurses, it would be possible to relieve them from the necessity of visiting the large number of clinic cases living under good sanitary conditions and who are attending clinic regularly. They should also be relieved of much of their present clerical work, thus giving them more and more time for this intensive treatment of cases that demand their help. It would be necessary, however, to employ a considerable number of additional Clinic Physicians to do this home visiting successfully, or to engage the present staff for longer periods of time than at present.

In appendix, a brief resume is given of the home nursing of tubercular patients by the Henry Street Settlement Nursing Association.

Finally, attention should be directed to the fact that not all parts of the City are at the present time equally equipped with clinic facilities to carry on this branch of the work satisfactorily. This is especially true in Brooklyn, where there are only six clinics and one day camp in operation. While this number of clinics is not strikingly out of proportion to the number of cases in the register, it should be remembered that the clinics are not as accessible in this Borough as in Manhattan. It is therefore suggested that at an early date two additional clinics be organized, one in Brownsville to relieve the now overcrowded clinic at Bradford street, and one in the Bedford section, preferably in connection with the Brooklyn Home for Consumptives, which institution doubtless would be ready to take an active part in such a project.

V.—THE TUBERCULOSIS HOSPITAL ADMISSION BUREAU.

The Tuberculosis Hospital Admission Bureau, established in September, 1910, is maintained jointly by the Departments of Health, Charities and Bellevue and Allied Hospitals. It is located in Manhattan and serves as a clearing house for the whole City. It admits patients to the State and municipal sanatoriums at Ray Brook and Otisville and the following tuberculosis hospitals:

Metropolitan Hospital, Bellevue Hospital, Seton Hospital, St. Josephs Hospital, St. Vincents Hospital, Riverside Hospital, Kings County Hospital, St. Peters Hospital, Brooklyn Home for Consumptives.

The location of the Admission Bureau in Manhattan and the uncertainty of opportunities for admission have resulted in comparatively few applications coming from Brooklyn. All cases recommended for institutional treatment and not able to pay are referred to this Bureau. The only cases admitted to hospitals without previous certification by the Bureau are emergency cases; but even then the Inspector of the Bureau later makes the necessary investigation and certifies to the case in the regular manner before it can go on the City roll for maintenance.

The routine of admissions to Otisville is as follows: Applications are made by clinics, private physicians or by patients coming on their own initiative. The candidates are physically examined and if found satisfactory are put on file as "applicants." An investigation of the economic conditions, legal residence and citizenship of the applicants is made by an Agent of the Department of Charities attached to the Bureau. A ruling of the officials requires that all applicants be residents of The City of New York for at least one year, that they be American citizens, and that they be unable to pay for the treatment themselves.

If the Agent of the Department of Charities finds conditions as required, the applicants are filed as "approved." Approved applicants are then once more examined for temperature, etc., and if O. K., are classed as "accepted." They then wait until a vacancy occurs, when they are notified to be ready.

The effectiveness of the Hospital Admission Bureau, even with present inadequate hospital facilities, depends upon its singleness of purpose in selecting cases. To fill Seton Hospital and the Brooklyn Home for Consumptives, for instance, with far advanced cases is a waste, as these institutions are admirably fitted for the treatment of early and moderately advanced cases. "Rounders" placed among self-respecting people will make the whole institution unbearable to the latter. Hospitals with a better reputation among the tubercular population are crowded with all sorts of cases, while others not so favorably reported have a meagre waiting list, because patients themselves choose the hospital into which they are ultimately permitted to go.

In anticipation of an adequate hospital provision the best economy under present conditions, both as far as expenses and results are concerned, will be obtained by the following methods:

(a) The vacancy in any hospital should be filled by the first patient on the waiting list of candidates suitable to just that kind of hospital, even if other patients not suitable for this hospital have waited longer.

(b) Homeless cases, and "rounders," who are not likely to be educated by the hospital in acquiring such habits as to make them safe to mingle freely with other people, should be forcibly removed to a suitable detention hospital.

VI.—RIVERSIDE.

North Brother Island on which Riverside Hospital is built presents an ideal location for tuberculosis hospitals or sanatoria. It has an abundance of fresh air and sunlight and would be coveted by anyone as a summer resort. Its fifteen acres would permit the erection of shacks of the Otisville type for the care of incipient cases, and the isolation favors its use as a hospital for forcible removal cases. If used for this latter purpose the natural advantages would serve to mollify popular objections to a vigorously enforced policy of detention.

There are at present accommodations for 300 patients and two new concrete buildings, each with 70 beds, to increase the total to 400 beds. An addition of two feet to the width of these buildings would have provided space for a double row of beds and still furnished sufficient ventilation to an increased number of patients. In them no elevators are provided, which is a defect in a building housing advanced cases. The existing central heating plant is adequate for the needs of future extensions. Buildings accommodating 800 more patients should at once be erected.

For the care of 182 tubercular patients and 48 measles and two diphtheria cases, there were at the date of inquiry, September 1, a staff of 217, divided as follows:

Visiting Physicians, 2; Resident, 6; Nurses, 29; Orderlies, 8; Clerks, 9; Matrons and Domestic, 93; Laborers, 27; Engineers and Firemen, 7; Drivers, 7; Captains on Ferryboats, 3; Marine Engineers and Firemen, 7; Deckhands, 7; Chaplain, 1; total, 217.

In addition there were on the regular staff ten employees absent during the day. With this staff to care for them and 800 beds available, the Riverside Hospital can provide for a large number of patients, with an increased appropriation for supplies only.

Upon inquiry it was found that the food and care provided for the patients is good. In fact patients seem to have a predilection for this place; cases whose main

illness was paralysis, Bright's disease, etc., who appeared to be fit subjects for almshouses, had gained admission on the plea of contributory tuberculosis.

VII.—OTISVILLE.

Designed to care for tuberculosis cases in the incipient stage, Otisville is the only sanatorium owned by the City. A general survey of the grounds, as well as a careful study of the individual buildings, impresses one that the plan of construction is admirably suited for the work in hand.

In the main, the plan of construction is as follows:

At different levels on the hill, facing the south, a number of shacks have, since the property was acquired, been erected. In the beginning these shacks were made of the lightest kind of construction and contained at most fifteen beds. This type has since given way to buildings of more permanent nature and the more recent buildings are of concrete, each holding about twenty-five beds. All the buildings, however, are directly exposed to currents of air, having only three walls, the fourth being nothing but a canvass screen, which is let down in times of extreme wind and drift.

While at first appearing rough and apparently neglectful of the interest of the patients, this construction in reality shows careful thinking on the part of the General Medical Officer; at any rate, it is recognized by the highest authorities throughout the country as best adapted for the treatment of early cases.

The policy of the Department to construct accommodations for incipient cases only seems to have been departed from in the plans for two new infirmaries. It seems as if these infirmaries were not designed for the care of acutely sick incipient cases, but for more advanced cases.

The method of treatment is as follows:

The patients stay out in the open air in all weather. After a few weeks' stay at the sanatorium under constant observation in what is known as the infirmary, the patient is transferred to one of the shacks and is given a regular course of employment. The employment may take on any one of a number of forms. Most often patients are put to work in the dining room to help serve other patients, others are put in the kitchen and others put to work on the grounds, or other work is found. In general the work is graduated according to the ability of the patient to perform it, although at the time of this inquiry the man in charge of the employment, an ex-patient in the last stage of the disease, did not show evidence of being well qualified as an Overseer.

While no attempt is made to effect a cure through extra feeding, there is every evidence that patients receive ample food.

If Otisville was originally designed as a sanatorium for strictly incipient cases, this policy has been departed from, as will be seen in the records of patients at admission.

Admissions January 1, 1907-July 1, 1911.

	Number.	Per Cent.
Incipient cases	497	23
Moderately advanced	1,452	67
Far advanced	226	10
Totals	2,175	100

The records of the 439 patients in the sanatorium September 9, 1911, show that 10 per cent. were in the incipient stage when admitted, 80 per cent. in the moderately advanced and 10 per cent. in the far advanced.

As a consequence the results shown in the reports of Otisville do not compare well with many other sanatoriums. At Otisville less than 36 per cent. of all cases were at their discharge classified as "apparently cured" or "arrested." At Stony Wold the percentage reached 50; at Trudeau 73, and in a German sanatorium supported by the Invalidity Insurance Institution, 70 per cent. during a period of fifteen years.

An analysis of the Otisville reports appearing in appendix will show how far the patients who were at admission moderately or far advanced have lowered the totals of cured and arrested cases. The desirability of testing the effects of the treatment at Otisville upon the various stages of tuberculosis may be advocated as a justification for admitting other than incipient cases. To lead to practical results, these tests must consequently anticipate the possibility that Otisville be converted from its original purpose to a hospital for advanced cases, a contingency that needs the full discussion of the medical profession, and the sanction of the Board of Estimate and Apportionment.

It is more probable, however, that the presence of a large number of advanced cases is due to pressure brought to bear upon the hospital authorities to admit patients on other grounds than those prescribed by the rules of admission.

So far, no efforts have been made to trace the subsequent history of the patient discharged as cured or arrested. Whether the expenditures of the City to restore them to permanent health have been fruitful or whether these people returned to conditions that will bring them back into the clutches of the disease is not known. Although it would appear a wise policy to ascertain how far the investment has been profitable, no attempts have been made to introduce a system of social service, demonstrated to be not only profitable, but necessary by other similar agencies.

APPENDIX A.

Results of Treatment of Patients Discharged from Otisville, January 1, 1907—June 30, 1911.

	Number.	Per Cent.
Apparently cured	145	6.7
Arrested	636	29.2
Improved	1,005	46.2
Progressing	200	9.2
Died	22	1.0
Transferred to other institutions.....	167	7.7
Total	2,175	100.0

Condition at Discharge of Incipient Cases Alone.

	Number.	Per Cent.
Apparently cured	79	15.9
Arrested	184	37.0
Improved	199	40.0
Progressing	29	5.9
Died	6	1.2
Transferred to other institutions.....	6	1.2
Total	497	100.0

Condition at Discharge of Moderately Advanced Cases Alone.

	Number.	Per Cent.
Apparently cured	66	4.6
Arrested	425	29.2
Improved	733	50.5
Progressing	132	9.1
Died	11	0.8
Transferred to other institutions.....	85	5.8
Total	1,452	100.0

Condition at Discharge of Far Advanced Cases Alone.

	Number.	Per Cent.
Apparently cured .....	.....	.....
Arrested	27	11.9

	Number.	Per Cent.
Improved	73	32.3
Progressing	39	17.3
Died	11	4.9
Transferred to other institutions.....	76	33.6
Total	226	100.0

APPENDIX B.

Nursing Service of Patients Suffering from Pulmonary Tuberculosis, Performed by the Nursing Staff of the Henry Street Settlement.

The nursing service of the Henry Street Settlement is organized to supply professional nursing in homes of people who cannot afford to engage a nurse for continuous service. Visits are made to the homes of the patients, and nursing is given according to directions of the physician in charge. All kinds of patients are nursed, even for infectious diseases. The character of the nursing is at all times supervised by the physician attending the case, and through daily work, records and personal supervision the district supervisors keep the efficiency of the nurses at a high level. Manhattan and The Bronx are completely districted, and the reputation of the service is very high among the medical profession.

For the purpose of illustrating what can be accomplished by home nursing of tubercular patients, a tabulation has been made of 220 cases of pulmonary tuberculosis nursed during 1910. The nursing includes the care of the patients, baths, massage, mouth hygiene, etc.; instructions in dieting and preparation of food and instructions in the disposal of sputum and general precautionary measures against the spread of the infection. Advisory or inspection visits similar in character to those of the Department of Health Nurses are also made when no nursing is given.

In 1910 the average number of visits per day of all nurses in the densely populated districts was 12, and in The Bronx, 8.

Below is given the details of the tabulation:

Number of patients tabulated.....	220
Ages less than 5.....	14
5 to 15	23
16 and over	183
Total number of visits made.....	2,699
Of which were inspection visits.....	62
Disposal of Patients—	
1—Sent to hospitals.....	41
Visited once	3
Visited 2 to 5 times.....	16
Visited 6 to 10 times.....	9
Visited 11 times or over.....	13
Total visits	424
2—Referred to dispensary and cared for by the latter.....	28
Visited once	3
Visited 2 to 5 times.....	11
Visited 6 to 10 times.....	6
Visited 11 times or more.....	8
Total visits	258
3—Nursing care by other agency provided.....	40
By family	31
By private nurse.....	4
By Health Department Nurse	3
By nurse from other agency.....	2
Visited once	9
Visited 2 to 5 times.....	16
Visited 6 to 10 times.....	5
Visited 11 times or more.....	10
Total visits	316
Of which made to 31 cases nursed by family.....	227
4—Continuous home care provided.....	99
Visited once	9
Visited 2 to 5 times.....	28
Visited 6 to 10 times.....	17
Visited 11 to 20 times.....	19
Visited 21 times or more.....	26
Total visits	1,613
5—Moved out of town or district.....	12
Visits made	88
Number of visits to 76 cases who died.....	1,374
Number of days that these cases lived from the first visit by the nurse.....	2,476
Cost to the Henry Street Settlement of nursing the 76 patients who died.....	\$785 93
Cost to the City for the same patients if maintained at public expense (80 cents per patient day)	1,980 80

These inferences may be drawn from the preceding data:

- 1—Nurses can be found who are willing to do nursing as well as supervisory service.
- 2—The character of supervision and the effectiveness of instruction in prophylaxis is greatly superior when nursing is added to inspection.
- 3—The economy to the City as well as the convenience to the family of having only one nurse enter the home is undoubted.
- 4—In 31 cases, or 14 per cent. of the total the family was educated to take over the care of the patient.
- 5—The nursing of these 220 patients is equivalent to the work of one nurse for 9 months.

The Secretary presented the following report of the Comptroller relative to and requesting the modification of Salary Schedules Nos. 49, 51 and 54, for the Department of Finance for the year 1912, providing for the promotion of seven Clerks, one Medical Examiner and two Bookkeepers and reducing the number of Bookbinders, Bookkeepers and Examiners, involving the transfer of \$825:

City of New York, Department of Finance, Comptroller's Office, July 12, 1912.

The Honorable Board of Estimate and Apportionment:

Gentlemen—Request is hereby made that the Budget schedule lines supporting the regular salaries appropriations, as made to the Department of Finance (Comptroller's Office) for the year 1912, be modified in order to provide for the following changes:

Executive.

- 49 Salaries, Regular Employees—
- 1st—For the promotion of a Clerk in the Executive Division from \$1,050 to \$1,350.
- 2d—For the promotion of a Clerk in the Law and Adjustment Division from \$1,500 to \$1,650.
- 3d—For the promotion of a Clerk in the Division of Awards from \$300 to \$480.
- 4th—For reducing the number of Bookbinders at \$1,200 by one incumbent.
- 5th—For the promotion of the Medical Examiner from \$2,500 to \$4,000.
- 6th—For the promotion of a Clerk in the Law and Adjustment Division from \$1,050 to \$1,200.
- 7th—For changing item "Balance Unassigned" from \$800 to \$1,370.
- 8th—For changing total from \$355,950 to \$357,600.

Auditing Bureau.

- 51 Salaries, Regular Employees—
- 1st—For reducing the number of Expert Accountants in the Auditing Bureau at \$2,100 by one incumbent.
- 2d—For the promotion of a Clerk in the Auditing Bureau from \$300 to \$480.
- 3d—For the promotion of a Bookkeeper in the Office of the Chief Accountant and Bookkeeper, Auditing Bureau, from \$1,200 to \$1,500.
- 4th—For the promotion of a Bookkeeper in the Office of the Chief Accountant and Bookkeeper, Auditing Bureau, from \$1,200 to \$1,350.
- 5th—For reducing the number of Bookkeepers, as provided in the Auditing Bureau schedule, by two incumbents, it being proposed to promote two incumbents, as shown by paragraphs 3 and 4.
- 6th—For the promotion of a Financial Clerk in the Office of the Chief Accountant and Bookkeeper, Auditing Bureau, from \$1,050 to \$1,200.
- 7th—For the promotion of a Clerk in the Office of the Auditor of Disbursements from \$1,050 to \$1,200.
- 8th—Insert item "Balance Unassigned," \$870.
- 9th—For reducing the number of Financial Clerks from 4 to 3, and increasing the number of Bookkeepers at \$1,200 from 23 to 24, from July 15; to provide

Stenographer and Typewriter.....	1,200 00
Stenographer and Typewriter, 3 at \$900.....	2,700 00
Balance unassigned.....	120 00
	\$91,150 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Comptroller recommending the acquisition at private sale of two farms, containing 223 acres, at Melville, Suffolk County, New York, at a price not exceeding \$325 an acre, amounting to \$72,475, as a site for the proposed new training school for the Brooklyn Disciplinary Training School for Boys:

The City of New York, Department of Finance, Comptroller's Office, July 13, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting of your Board held July 17, 1911, corporate stock to the amount of \$75,000 was authorized to provide means for the acquisition of a new site for the Brooklyn Disciplinary Training School for Boys. This resolution was concurred in by the Board of Aldermen on July 31, 1911.

In the meantime the Board of Managers of the Disciplinary Training School have examined 120 different parcels of land which were submitted to them for consideration as a site for this purpose, and finally determined that two farms, containing 223 acres, at Melville, Suffolk County, Long Island, were the most desirable for the purposes mentioned.

In so far as the location is concerned, it may be stated that the eastern end of this site adjoins the Huntington-Amityville trolley line station at Melville, and is about four miles from the Farmingdale station on the Long Island Railroad. The property has a half mile of frontage on the State road, which extends southwest from the trolley station at Melville. The Long Island Railroad time table shows seven trains daily each way between Flatbush avenue and Farmingdale, which is distant 32.2 miles from New York, the running time between the two points being one hour. The Huntington-Amityville time table shows ten trips daily and fourteen trips on Sunday between Farmingdale and Melville. The time between the two stations is ten minutes. The round trip fare from Flatbush avenue to Farmingdale is \$1.51, and the trolley fare from Farmingdale to Melville is ten cents.

The premises are about a half mile wide from north to south, and about three-quarters of a mile wide from east to west, rounding to a point on the easterly side where it almost touches the trolley. The cleared section is on the easterly side of the property and is all flat country, extending along the State road for about half a mile and in area covers approximately 90½ acres. The remainder of the premises consists of wooded hills rising from the cleared area and extending back to the westerly boundaries. The hills form a table land in the centre of the property and will furnish an ideal place for the cottages and other buildings which it is proposed to construct for the institution.

The property in question may be purchased at the rate of \$325 per acre, which, for the 223 acres included in both tracts, amounts to \$72,475.

The price being reasonable and just, I respectfully recommend that your Board approve of the selection of the following described premises for use by the Brooklyn Disciplinary Training School for Boys as a site for a proposed new Training School, subject to concurrence by the Board of Aldermen:

Parcel No. 1.

All that certain tract or parcel of land situate at Melville, formerly Sweet Hollow, town of Huntington, Suffolk County, N. Y., bounded and described as follows:

Beginning at a point in the southerly line of the Old Country road where the same is intersected by the division line between the property herein described and the land of John Stone, running thence along John Stone's land 59 degrees 28 minutes 30 seconds east, 115.16 feet; thence north 84 degrees 19 minutes 10 seconds east, 172.64 feet; thence south 1 degree 53 minutes 50 seconds west, 109.90 feet; thence south 27 degrees 36 minutes west, 90.50 feet; thence south 26 degrees 3 minutes west, 447.37 feet to a post; thence south 83 degrees 55 minutes 50 seconds east, 501.78 feet to a stump; thence north 12 degrees 2 minutes 10 seconds east, 287.61 feet to land of Christopher Murphy; thence along said Christopher Murphy's land south 62 degrees 32 minutes 20 seconds east, 81.84 feet, south 49 degrees 6 minutes 20 seconds east 40.31 feet; thence south 65 degrees 59 minutes east 58.15 feet; thence north 80 degrees 45 minutes 30 seconds east, 274.24 feet to land of Anna Soper; thence along Anna Soper's land south 19 degrees 53 minutes 50 seconds east 315.12 feet; thence south 39 degrees 54 minutes 50 seconds east 255.76 feet; thence north 46 degrees 48 minutes east 201.15 feet to land of Ketcham Buffett; thence along said Ketcham Buffett's land south 42 degrees 18 minutes 30 seconds east, 326.02 feet; thence south 46 degrees 22 minutes 40 seconds west, 248.38 feet; thence south 37 degrees 54 minutes 40 seconds east, 576.12 feet to the road leading southerly from Melville to Farmingdale; thence along said road leading south 55 degrees 22 minutes 50 seconds west, 428.16 feet; thence south 44 degrees 24 minutes 30 seconds west, 421.94 feet; thence south 42 degrees 12 minutes west, 598.88 feet to land now or formerly of Edward Ebbetts; thence along land of said Edward Ebbetts north 59 degrees 57 minutes 40 seconds west, 423.75 feet; thence north 58 degrees 47 minutes 50 seconds west, 354.04 feet; thence north 61 degrees 5 minutes 40 seconds west, 70.01 feet; thence south 59 degrees 52 minutes 50 seconds west, 36.71 feet; thence north 46 degrees 50 minutes 50 seconds west, 144.30 feet; thence north 71 degrees 56 minutes 20 seconds west, 31 feet to a white oak; thence north 17 degrees 18 minutes east, 768.32 feet; thence north 60 degrees 2 minutes 10 seconds west, 887.90 feet to a white oak; thence south 31 degrees 46 minutes 20 seconds west, 809.74 feet; thence north 53 degrees 30 minutes 40 seconds west, 758.50 feet to land now or formerly of Edward S. Ireland; thence along land of said Edward S. Ireland north 56 degrees 21 minutes east, 1,375.78 feet to the southerly side of the Old Country road; thence along said Old Country road 89 degrees 12 minutes 40 seconds east, 286.73 feet; thence north 81 degrees 36 minutes 30 seconds east, 733.62 feet to the point or place of beginning. Containing within said bounds 103.139 acres, be the same more or less. Said courses are from the true meridian. Together with all the rights, title and interest, if any, of the owners in and to the abutting highways to the centre thereof.

—and authorize the Comptroller to enter into contract for the acquisition of the same, at private sale, at the rate of \$325 an acre (it being understood that the owners will furnish to The City of New York, free from expense, a correct survey of the premises showing the number of acres within the tract), said contract to be submitted to the Corporation Counsel for his approval as to form. Also

Parcel No. 2.

All that certain piece, parcel or homestead of land with the buildings and mansion house thereon, situated in the town of Huntington, Suffolk County and State of New York, at a place called Melville, or Sweet Hollow, bounded and described as follows:

Easterly by the highway leading from Farmingdale to Melville in part, and in part by land formerly of Oliver Smith and now of Aaron Jarvis, northerly by land formerly of Oliver Smith, John Everett, Benjamin Gould, John Oakley, Zopher Ketcham and John Baylis, now of Aaron Jarvis in part, and land of John Stone in part, and land of Isaac Ireland in part, and of the heirs of John Baylis in part, westerly by lands known as the John Colyer estate or "Peach Orchard property," southerly by land formerly of Isaac Baylis, now of Elias Baylis, Jr., Isaac M. Baylis and lands of the heirs of James E. Baylis and of the heirs of Griffin, containing within said bounds one hundred and twenty acres, be the same more or less, and being the same premises mentioned, described and conveyed in a certain deed made and executed by Jonathan Jarvis and Deborah, his wife, to David Jarvis, dated the 23d day of August, 1831, and recorded in Suffolk County Clerk's office in Liber 158 of Deeds, page 254, on the 13th day of April, 1869. Together with all the right, title and interest, if any, of the owners in and to the abutting highways to the centre thereof.

—and authorize the Comptroller to enter into contract for the acquisition of the same, at private sale, at the rate of \$325 an acre (it being understood that the owners

will furnish to The City of New York, free from expense, a correct survey of the premises showing the number of acres within the tract), said contract to be submitted to the Corporation Counsel for his approval as to form. Respectfully,

WM. A. PRENDERGAST, Comptroller.

Hon. F. K. Carmody appeared in favor of the proposition.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the Board of Estimate and Apportionment hereby approves of the selection by the Board of Managers of the Brooklyn Disciplinary Training School for Boys, of property containing 223 acres at Melville, Suffolk County, Long Island, as a site for a new training school, bounded and described as follows:

Parcel No. 1.

All that certain tract or parcel of land situate at Melville, formerly Sweet Hollow, town of Huntington, Suffolk County, N. Y., bounded and described as follows:

Beginning at a point in the southerly line of the Old Country Road where the same is intersected by the division line between the property herein described and the land of John Stone, running thence along John Stone's land 59 degrees 28 minutes 30 seconds east, 115.16 feet; thence north 84 degrees 19 minutes 10 seconds east, 172.64 feet; thence south 1 degree 33 minutes, 50 seconds west, 109.90 feet; thence south 27 degrees 36 minutes west, 90.50 feet; thence south 26 degrees 3 minutes west, 447.37 feet to a post; thence south 83 degrees 55 minutes 50 seconds east, 501.78 feet to a stump; thence north 12 degrees 2 minutes 10 seconds east, 287.61 feet to land of Christopher Murphy; thence along said Christopher Murphy's land south 62 degrees 32 minutes 20 seconds east, 81.84 feet, south 49 degrees 6 minutes 20 seconds east 40.51 feet; thence south 65 degrees 59 minutes east 58.15 feet; thence north 80 degrees 45 minutes 30 seconds east, 274.24 feet to land of Anna Soper; thence along Anna Soper's land south 19 degrees 53 minutes 50 seconds east 315.12 feet; thence south 39 degrees 54 minutes 50 seconds east, 255.76 feet; thence north 46 degrees 48 minutes east 201.15 feet to land of Ketcham Buffett; thence along said Ketcham Buffett's land south 42 degrees 18 minutes 30 seconds east, 326.02 feet; thence south 46 degrees 22 minutes 40 seconds west, 248.38 feet; thence south 37 degrees 54 minutes 40 seconds east, 576.12 feet to the road leading southerly from Melville to Farmingdale; thence along said road leading south 55 degrees 22 minutes 50 seconds west, 428.16 feet; thence south 44 degrees 24 minutes 30 seconds west, 421.94 feet; thence south 42 degrees 12 minutes west, 598.88 feet to land now or formerly of Edward Ebbetts; thence along land of said Edward Ebbetts north 59 degrees 57 minutes 40 seconds west, 423.75 feet; thence north 58 degrees 47 minutes 50 seconds west, 354.04 feet; thence north 61 degrees 5 minutes 40 seconds west, 70.01 feet; thence south 59 degrees 52 minutes 50 seconds west, 36.71 feet; thence north 46 degrees 50 minutes 50 seconds west, 144.30 feet; thence north 71 degrees 56 minutes 20 seconds west, 31 feet to a white oak; thence north 17 degrees 18 minutes east, 768.32 feet; thence north 60 degrees 2 minutes 10 seconds west, 887.90 feet to a white oak; thence south 31 degrees 46 minutes 20 seconds west, 809.74 feet; thence north 53 degrees 30 minutes 40 seconds west, 758.50 feet to land now or formerly of Edward S. Ireland; thence along land of said Edward S. Ireland north 56 degrees 21 minutes east, 1,375.78 feet to the southerly side of the Old Country road; thence along said Old Country road 89 degrees 12 minutes 40 seconds east, 286.73 feet; thence north 81 degrees 36 minutes 30 seconds east, 733.62 feet to the point or place of beginning. Containing within said bounds 103.139 acres, be the same more or less. Said courses are from the true meridian. Together with all the rights, title and interest, if any, of the owners, in and to the abutting highways to the centre thereof.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same, at private sale, at the rate of three hundred and twenty-five dollars (\$325) an acre (it being understood that the owners will furnish to The City of New York, free from expense, a correct survey of the premises showing the number of acres within the tract), said contract to be submitted to the Corporation Counsel for approval as to form. Also

Parcel No. 2.

All that certain piece, parcel or homestead of land with the buildings and mansion house thereon, situated in the town of Huntington, Suffolk County and State of New York, at a place called Melville, or Sweet Hollow, bounded and described as follows:

Easterly by the highway leading from Farmingdale to Melville in part, and in part by land formerly of Oliver Smith and now of Aaron Jarvis, northerly by land formerly of Oliver Smith, John Everett, Benjamin Gould, John Oakley, Zopher Ketcham and John Baylis now of Aaron Jarvis in part, and land of John Stone in part, and land of Isaac Ireland in part, and of the heirs of John Baylis in part, westerly by lands known as the John Colyer Estate or "Peach Orchard property," southerly by land formerly of Isaac Baylis, now of Elias Baylis, Jr., Isaac M. Baylis and lands of the heirs of James E. Baylis and of the heirs of Griffin, containing within said bounds one hundred and twenty acres, be the same more or less, and being the same premises mentioned, described and conveyed in a certain deed made and executed by Jonathan Jarvis and Deborah, his wife, to David Jarvis, dated the 23d day of August, 1831, and recorded in Suffolk County Clerk's Office in Liber 158 of Deeds, page 254, on the 13th day of April, 1869. Together with all the right, title and interest, if any, of the owners, in and to the abutting highways to the centre thereof.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same, at private sale, at the rate of three hundred and twenty-five dollars (\$325) an acre (it being understood that the owners will furnish to The City of New York, free from expense, a correct survey of the premises showing the number of acres within the tract), said contract to be submitted to the Corporation Counsel for approval as to form.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.
Negative—The President of the Board of Aldermen—3.

The Secretary presented the following communication from the Department of Bridges relative to, and report of the Comptroller recommending, the acquisition at private sale, at a price not exceeding \$26,000, of property, consisting of an entire block, bounded by Skillman place, Jackson avenue, Queensboro Bridge Plaza and Hunter avenue, Long Island City, Borough of Queens, as part of the approach of the Queensboro Bridge:

(On May 23, 1912, the request of the Commissioner of Bridges for the acquisition of the above property was referred to the Comptroller.)

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, New York, May 17, 1912.

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

Gentlemen—I transmit herewith, for your consideration, a selection of a site in the Borough of Queens for an approach to the Queensboro Bridge. The property selected consists of a narrow strip of land lying between the present approach of the Queensboro Bridge and the southwesterly side of Skillman place. This parcel was not included in the lands originally acquired for the Queensboro Bridge, as it lay at that time within the limits of Skillman place as laid out on the City Map.

The map or plan of the City was amended by resolution of your Board adopted March 7, 1912, and approved by the Mayor March 20, 1912, in such a manner that this parcel now lies outside the lines of Skillman place. It will be detrimental to the appearance and use of the approach or plaza of the bridge if this parcel is not acquired by the City, as it is only a narrow strip of property, and would in the future doubtless be used for an unsightly structure as at present or for advertising signs.

This property is needed in order to complete in a proper manner the Queens approach or plaza of the Queensboro Bridge, and I beg to recommend its acquisition by the City. Yours truly,

ARTHUR J. O'KEEFE, Commissioner.

Department of Bridges, City of New York, May 17, 1912.

Pursuant to the provisions of section 502 of the Greater New York Charter as amended, I, Arthur J. O'Keefe, Commissioner of Bridges of The City of New York, do hereby select as a site for an approach to the Queensboro Bridge, the lands, premises and property situate, lying and being in the Borough of Queens, in The City of New York, bounded and described as follows:

Beginning at the intersection of the northwesterly line of Jackson avenue and the southwesterly line of Skillman place, and running thence southwesterly along the northwesterly side of Jackson avenue 4.74 feet; thence northwesterly along the northeasterly boundary line of lands heretofore acquired by The City of New York for the Queensboro Bridge 140.17 feet to the southeasterly side of Hunter avenue;

thence northeasterly along the southeasterly side of Hunter avenue 22.93 feet to the southwesterly side of Skillman place; thence southeasterly along the southwesterly side of Skillman place 127.73 feet to the point or place of beginning.

Such selection is subject to the approval of the Board of Estimate and Apportionment, as provided by said section 602 of the Charter.

ARTHUR J. O'KEEFE, Commissioner of Bridges.

The City of New York, Department of Finance, Comptroller's Office, July 12, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting of your Board held May 23, 1912, there was referred to the Comptroller a communication from the Commissioner of Bridges, transmitting therewith the selection of a site in the Borough of Queens for an approach to the Queensboro Bridge.

The premises consist of the entire block bounded by Skillman place, Jackson avenue, Queensboro Bridge Plaza and Hunter avenue, in Long Island City, and are practically in front of the transfer point on the Queensboro Plaza, and contain 1,560.4 square feet of land. This parcel of property was not included in the lands originally acquired for the Queensboro Bridge as it lay at that time within the limits of Skillman place as laid out on the City map. The map or plan of the City was amended by resolution of your Board dated March 7, 1912, and approved by the Mayor on March 20, 1912, in such a manner that this parcel now lies outside the lines of Skillman place.

The presence of the structure and fences on these premises is detrimental to the appearance of the approach to the Plaza of the Queensboro Bridge, and, unless the property is acquired by the City, will be an unsightly structure, as it is now being used for advertising purposes. The premises are also needed in order to complete in a proper manner the Queens approach or plaza to this bridge.

Condemnation proceedings were heretofore authorized by the Board of Estimate and Apportionment to acquire these premises by condemnation. The rule, damage and profile maps were approved by the Board of Estimate and Apportionment on February 11, 1910. The Commissioners of Estimate and Assessment were appointed at a Special Term of the Supreme Court in the latter part of June, 1910, and filed their oaths of office on August 2, 1910. Thereafter, various hearings were held by the Commissioners and a preliminary award for the property in question was fixed in the sum of \$25,200. The proceeding was discontinued by the Board of Estimate and Apportionment at a meeting held on the 29th day of January, 1912, for the reason that the entire expense for the acquisition of the property was to be borne and paid for by a small area of assessment, and in view of the protest of the property owners affected by this assessment the proceeding was discontinued, upon the recommendation of a Select Committee of the Board of Estimate and Apportionment. Thereafter, it was determined to acquire the premises for the use of the Department of Bridges, it being understood that the entire expense for the acquisition should be borne and paid for by the City at large.

The original price demanded by the owners of the premises was \$28,000, which is made up of the amount of the preliminary award, \$25,200, and the loss of interest and payment of taxes since the date the award was made. They state that they have been unable to secure more than a nominal return from the premises in question, because of the pending condemnation proceeding which precluded them from giving any lease on the property, in view of the probability of the City taking title at any time.

After negotiation by the Comptroller, the owners have agreed to reduce the purchase price to the sum of \$26,000, which figure is regarded by the expert for City who appeared in the condemnation proceeding as fair and reasonable because of the great increase in values in that vicinity during the last three years.

The Public Service Commission for the First District, at its meeting held July 12, 1912, adopted a resolution stating that it had no objection to the acquisition of these premises for the purposes mentioned, and believe it in the best interests of the City to acquire the same.

The price being reasonable and just, I respectfully recommend that your Board approve of the selection by the Commissioner of Bridges of the following described premises as an approach to the Queensboro Bridge in the Borough of Queens, pursuant to the provisions of section 602 of the Greater New York Charter, as amended:

All that certain lot, piece or parcel of land, with the improvements thereon, situate, lying and being in the Borough of Queens, City and State of New York, bounded and described as follows:

Beginning at the corner formed by the intersection of the southerly side of Skillman place with the westerly side of Jackson avenue; running thence northwesterly along the southerly side of Skillman place, 127.73 feet to the easterly side of Hunter avenue; thence southwesterly along the southerly side of Hunter avenue, 22.92 feet to the line of the property of The City of New York, acquired by it in the proceeding to acquire property for the Queensboro Bridge; thence easterly along the line of the said property belonging to The City of New York and along the Queensboro Bridge Plaza, 140.17 feet to the westerly line of Jackson avenue; thence northerly along the westerly line of Jackson avenue 4.74 feet to the point or place of beginning; together with all the right, title and interest, if any, of the owners of the said property, of, in and to Jackson avenue, Skillman place and Hunter avenue, in front of the premises herein described, to the centre thereof.

—the Public Service Commission for the First District, at a meeting held July 12, 1912, having adopted a resolution approving the said selection by the Commissioner of Bridges of The City of New York for an approach to the Queensboro Bridge, the property more particularly described in a communication of the Commissioner of Bridges to the Board of Estimate and Apportionment under date of May 17, 1912; and the Comptroller be authorized to enter into contract for the acquisition of the same at private sale, at a price not exceeding \$26,000, said contract to be submitted to the Corporation Counsel for his approval as to form. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the Commissioner of Bridges of property bounded by Skillman place, Jackson avenue, Queensboro Bridge plaza and Hunter avenue, Long Island City, Borough of Queens, required for an approach to the Queensboro Bridge, bounded and described as follows:

All that certain lot, piece or parcel of land, with the improvements thereon, situate, lying and being in the Borough of Queens, City and State of New York, bounded and described as follows:

Beginning at the corner formed by the intersection of the southerly side of Skillman place with the westerly side of Jackson avenue; running thence northwesterly along the southerly side of Skillman place, 127.73 feet to the easterly side of Hunter avenue; thence southwesterly along the southerly side of Hunter avenue, 22.92 feet to the line of the property of The City of New York, acquired by it in the proceeding to acquire property for the Queensboro Bridge; thence easterly along the line of the said property belonging to The City of New York, and along the Queensboro Bridge plaza, 140.17 feet to the westerly line of Jackson avenue; thence northerly along the westerly line of Jackson avenue, 4.74 feet to the point or place of beginning; together with all the right, title and interest, if any, of the owners of the said property, of, in and to Jackson avenue, Skillman place and Hunter avenue, in front of the premises herein described, to the centre thereof.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same at private sale, at a price not exceeding twenty-six thousand dollars (\$26,000), said contract to be submitted to the Corporation Counsel for approval as to form.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented a report of the Comptroller recommending that the request of the Corporation Counsel for the modification of salary schedule; also the establishment, pursuant to section 56 of the Charter, of two additional grades of positions, to permit of increasing the salaries of 10 employees in his office, be disapproved, for the reason that it is proposed to apply a balance in the salary appropriation resulting from accruals for this purpose, which, under the ruling of the Board, cannot be so applied.

On motion, the report of the Comptroller was approved.

(On May 16, 1912, the above mentioned request was referred to the Committee on Salaries and Grades, in regard to the establishment of grades, and copy of communication was transmitted to the Comptroller for report on the modification of salary schedule.)

(At the meeting of July 11, 1912, the above matter was laid over for this meeting.)

The Secretary presented a communication from the President of the Borough of The Bronx, requesting approval of the form of contract, plans, specifications and estimate of cost, as modified, for the completion of the Bronx Borough Court House.

Which was laid over.

(On June 13, 1912, the report of the Comptroller, recommending that approval of the form of contract, plans, specifications and estimate of cost (\$324,000) be withheld pending the modification of the plans and specifications to permit of greater competition, was presented to the Board and a copy thereof ordered sent to the President of The Bronx for his consideration.)

(At the meeting of July 11, 1912, the above matter was laid over for this meeting.)

The Secretary presented the following communication from the Board of Water Supply requesting, and report of the Comptroller recommending, approval of the purchase by said Board of easements in Parcels Nos. 1172, 1174, 1175, 1177, 1179, 1181, 1183, 1185 and 1189, section 18, Southern Aqueduct:

(On June 27, 1912, the request of the Board of Water Supply for approval of the above purchase was referred to the Comptroller.)

Board of Water Supply, City of New York, 165 Broadway, New York, June 18, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—At the meeting of the Board of Water Supply held on the 10th day of June, 1912, the following resolution was adopted:

Resolved, That the Board of Water Supply, pursuant to chapter 724 of the Laws of 1905, and subject to approval of the Board of Estimate and Apportionment, hereby approves of the purchase from the following for \$1 each, of easements through the following parcels in Southern Aqueduct, Section 18:

Ammann Homestead Estates, Parcels 1172, 1174.

First Mortgage Real Estate Company, Parcel 1175.

Estate of Millard Smith, Parcels 1177, 1179, 1183, 1185.

Glen Washington Realty Company, Parcel 1181.

Glen Washington Realty Company and Estate of Millard Smith, Parcel 1189.

—and that when and if these purchases shall be approved by the Board of Estimate and Apportionment, the Corporation Counsel is hereby requested to prepare the necessary agreements and other instruments for the signatures of the Board of Water Supply, and take such other steps and proceedings as may be necessary and proper.

We send you herewith copies of options covering these purchases and respectfully request approval of same. Respectfully,

BOARD OF WATER SUPPLY, Per JOSEPH P. MORRISSEY, Secretary.

The City of New York, Department of Finance, Comptroller's Office, July 10, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting of the Board of Estimate and Apportionment held June 27, 1912, there was referred to me for consideration and report a communication from the Board of Water Supply requesting approval of the purchase of easements in Parcels 1172, 1174, 1175, 1177, 1179, 1181, 1183, 1185 and 1189, Southern Aqueduct, Section 18, which communication enclosed copies of options covering these purchases.

These easements are necessary for the construction of an open-cut channel for use as a blow-off, for the purpose of emptying the Catskill Aqueduct, or part of it, whenever it may be necessary so to do, and for the flow or passage of water therefrom through the parcels mentioned. The different owners have given an option to The City of New York, through the Board of Water Supply, of \$1 for these easements.

I therefore respectfully recommend that the following resolution adopted at the meeting of the Board of Water Supply on June 10, 1912, be approved:

Resolved, That the Board of Water Supply, pursuant to chapter 724 of the Laws of 1905, and subject to approval of the Board of Estimate and Apportionment, hereby approves of the purchase from the following for \$1 each, of easements through the following parcels in Southern Aqueduct, Section 18:

Ammann Homestead Estates, Parcels 1172, 1174.

First Mortgage Real Estate Company, Parcel 1175.

Estate of Millard Smith, Parcels 1177, 1179, 1183, 1185.

Glen Washington Realty Company, Parcel 1181.

Glen Washington Realty Company and Estate of Millard Smith, Parcel 1189.

—and that when and if these purchases shall be approved by the Board of Estimate and Apportionment, the Corporation Counsel is hereby requested to prepare the necessary agreements and other instruments for the signatures of the Board of Water Supply, and take such other steps and proceedings as may be necessary and proper. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 724, Laws of 1905, as amended, hereby approves of the action taken by the Board of Water Supply relative to the acquisition of easements in the following parcels of land in the Southern Aqueduct, Section 18:

Ammann Homestead Estates, Parcels 1172 and 1174; First Mortgage Real Estate Company, Parcel 1175; Estate of Millard Smith, Parcels 1177, 1179, 1183 and 1185; Glen Washington Realty Company, Parcel 1181; Glen Washington Realty Company and Estate of Millard Smith, Parcel 1189.

—and authorizes the purchase of said easements at one dollar (\$1) each; the Corporation Counsel to prepare the necessary agreements and other instruments required in the premises.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Board of Water Supply requesting, and report of the Comptroller recommending, approval of the settlement with Lewis C. Platt and W. S. Shelley of the award for Parcel 1021, Section 15, Southern Aqueduct, and Parcel 1170, Section 17, Southern Aqueduct, containing approximately 38 acres, for the sum of \$35,600, with interest from July 2, 1910, plus 5 per cent. allowance on the award for the usual attorney's fees and disbursements heretofore taxed at \$490:

Board of Water Supply, City of New York, 165 Broadway, New York, June 7, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—The Commissioners of Appraisal in Southern Aqueduct, Sections 15 and 17, have heretofore awarded to Lewis C. Platt and W. S. Shelley for Parcels 1021, Section 15, and 1170, Section 17, the sum of \$33,148, with interest from July 2, 1910, together with 5 per cent. allowance for attorney's fees and \$490 disbursements. This award has been set aside by the Supreme Court and The City of New York has appealed from this order of the Court, which appeal is still pending.

On June 4, 1912, pursuant to advice from I. J. Beaudrias, Special Counsel, connected with the Law Department, and in view of the great additional expense to the City if the appeal is not successful, the following resolution was adopted:

Whereas, The Commissioners of Appraisal in Southern Aqueduct, Sections 15 and 17, have heretofore awarded the sum of \$33,148, with interest from July 2, 1910, together with the customary allowance for attorney's fees and disbursements, to Lewis C. Platt and W. S. Shelley for Parcels 1021, Section 15, and 1170, Section 17, containing approximately 38 acres; and

Whereas, This award was set aside by the Supreme Court as being inadequate, and the City has appealed from this order of the Court, which appeal is

still pending; and in view of the expense of such appeal, which, if not successful, will result in a new hearing before new Commissioners at great additional expense to the City; now, therefore, be it

Resolved, That the Board of Water Supply, pursuant to chapter 724 of the Laws of 1905, as amended, and subject to approval of the Board of Estimate and Apportionment, hereby approves of the settlement of the award, with Lewis C. Platt and W. S. Shelley, for Parcel 1021, Section 15, Southern Aqueduct, and Parcel 1170, Section 17, Southern Aqueduct, containing approximately 38 acres, at \$35,600, with interest from July 2, 1910, plus 5 per cent. allowance on the award for the usual attorney's fees, and disbursements heretofore taxed at \$490; and that upon such approval by the Board of Estimate and Apportionment, the Corporation Counsel is hereby requested to prepare the necessary agreements and other instruments for the signatures of the Board of Water Supply, and take such other steps and proceedings as may be necessary and proper to consummate the settlement.

We respectfully request your approval of the settlement of the award for Parcels 1021 and 1170, as stated in the foregoing resolution. Respectfully,
BOARD OF WATER SUPPLY, Per JOSEPH P. MORRISSEY, Secretary.

The City of New York, Department of Finance, Comptroller's Office, July 10, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—The Secretary of the Board of Water Supply, in a communication to your Board under date of June 7, 1912, states that the Commissioners of Appraisal in Southern Aqueduct, Sections 15 and 17, have heretofore awarded to Lewis C. Platt and W. S. Shelley for Parcels 1021, Section 15, and 1170, Section 17, the sum of \$33,148, with interest from July 2, 1910, together with 5 per cent. allowance for attorney's fees and \$490 disbursements, and that this award has been set aside by the Supreme Court as inadequate, and the City of New York has appealed from this order of the court, which appeal is still pending. He also says that on June 4, 1912, the Board, acting upon the advice of I. G. Beaudrias, Special Counsel for the City, and in view of the great additional expense to the City if the appeal is not successful, adopted the following resolution:

Whereas, The Commissioners of Appraisal in Southern Aqueduct, Sections 15 and 17, have heretofore awarded the sum of \$33,148, with interest from July 2, 1910, together with the customary allowance for attorney's fees and disbursements, to Lewis C. Platt and W. S. Shelley for Parcels 1021, Section 15, and 1170, Section 17, containing approximately 38 acres; and

Whereas, This award was set aside by the Supreme Court as being inadequate, and the City has appealed from this order of the Court, which appeal is still pending; and in view of the expense of such appeal, which, if not successful, will result in a new hearing before new Commissioners at great additional expense to the City; now, therefore, be it

Resolved, That the Board of Water Supply, pursuant to chapter 724 of the Laws of 1905, as amended, and subject to approval of the Board of Estimate and Apportionment, hereby approves of the settlement of the award, with Lewis C. Platt and W. S. Shelley, for Parcel 1021, Section 15, Southern Aqueduct, and Parcel 1170, Section 17, Southern Aqueduct, containing approximately 38 acres, at \$35,600, with interest from July 2, 1910, plus 5 per cent. allowance on the award for the usual attorney's fees, and disbursements heretofore taxed at \$490; and that upon such approval by the Board of Estimate and Apportionment, the Corporation Counsel is hereby requested to prepare the necessary agreements and other instruments for the signatures of the Board of Water Supply, and take such other steps and proceedings as may be necessary and proper to consummate the settlement.

The difference between the award as made by the Commissioners, \$33,148, and the sum named for a settlement, \$35,600, is \$2,452. If the appeal is carried to the Court of Appeals the expense will be approximately \$1,000, and if unsuccessful there the result will be a new hearing before new Commissioners at great additional expense to the City; and if the condemnation must be made over again there is no assurance that the award will not be considerably increased.

I therefore respectfully recommend, the price being reasonable and just under the circumstances, that the Board of Estimate and Apportionment adopt a resolution approving of the settlement of the award with Lewis C. Platt and W. S. Shelley, for Parcel 1021, Section 15, Southern Aqueduct, and Parcel 1170, Section 17, Southern Aqueduct, containing approximately 38 acres, for the sum of \$35,600, with interest from July 2, 1910, plus 5 per cent. allowance on the award for the usual attorney's fees, and disbursements heretofore taxed at \$490, and that the Corporation Counsel be requested to prepare all the necessary agreements and other instruments for the signature of the Board of Water Supply, and to take such other steps and proceedings as may be necessary and proper. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 724, Laws of 1905, as amended, hereby approves of the action taken by the Board of Water Supply relative to the settlement of the award, with Lewis C. Platt and W. S. Shelley, for Parcel 1021, Section 15, Southern Aqueduct, and Parcel 1170, Section 17, Southern Aqueduct, containing approximately 38 acres, and authorizes the settlement of said award at thirty-five thousand six hundred dollars (\$35,600), with interest from July 2, 1910, plus 5 per cent. allowance on the award for the usual attorney's fee, and disbursements heretofore taxed at four hundred and ninety dollars (\$490); the Corporation Counsel to prepare the necessary agreements and other instruments required in the premises.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Sheriff of the County of Queens relative to, and report of the Committee on Salaries and Grades recommending the establishment in the office of the Sheriff, Queens County, of the grade of position of Matron, at \$600 per annum, for one incumbent, and that the following grades of positions be abolished:

	Rate Per Annum.	No. of Incumbents.
Warden	\$2,000 00	1
Orderly	1,300 00	1
Physician	1,200 00	1
Finger Print Clerk	1,200 00	1
Keeper	1,000 00	7
Matron	800 00	1
Assistant Matron	600 00	1
Cook	300 00	1
Assistant Cook	250 00	1
Laundress	250 00	1

—also recommending that the request be granted to the extent of allowing the Sheriff one Warden at \$1,200, two Keepers at \$1,000 each and one Matron at \$600, which grades have already been established with the exception of Matron at \$600 per annum.

(On April 25, 1912, the request of the Sheriff of Queens County for the establishment of the grades of positions of Warden, Deputy Warden, Keeper, Matron, Cleaner and Bookkeeper for the Queens County Jail, in consequence of the enactment of chapter 456 of the Laws of 1912, directing the transfer of certain jail buildings in Queens County from the custody of the Sheriff to the Commissioner of Correction and the transfer of employees under the jurisdiction of said Sheriff to the Department of Correction, was referred to the above Committee.)

Office of the Sheriff, Queens Co., County Court House, Long Island City, April 22, 1912.

Board of Estimate and Apportionment, City Hall, New York, N. Y.:

Gentlemen—An act entitled "Act to amend the Greater New York Charter in relation to transferring the jail buildings in Queens County from the custody of the Sheriff to the Commissioner of Corrections" has become a law.

This law provides among other things that each and every Warden, Deputy Warden, Jail Keeper, Van Driver, Cook, etc., so employed in the jail at the time of this act going into effect shall be retained and assigned to perform the same services in the same institution in which they are now employed; that is, all the present attaches of the Queens County jail shall pass into the Department of Corrections.

Therefore as soon as this act takes effect, there will be no Warden and Keepers for the civil prisoners of the county. In order to provide for this happening, I request the Board of Estimate and Apportionment, under the authority of chapter 502 of the Laws of 1909 entitled, "An act to make the office of the Sheriff of the County of Queens a salaried one and regulate the management of the said office," to create and fix salaries for the following positions, which I deem necessary for the care and control of the civil prisoners:

Warden, Deputy Warden, six Keepers, two Matrons, one Cleaner, Bookkeeper. Yours very truly. THOMAS M. QUINN, Sheriff of Queens County, N. Y.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 22, 1912, the Sheriff of Queens County requested establishment of the grades of position of Warden, Deputy Warden, Keeper, six incumbents; Matron, two incumbents; Cleaner and Bookkeeper for the Queens County Jail, pursuant to the provisions of section 56 of the Greater New York Charter. In connection therewith we report as follows:

Chapter 456 of the Laws of 1912, which became a law on April 18, 1912, amends section 695 of the Greater New York Charter and directs the transfer of certain jail buildings in Queens County from the custody of the Sheriff to the Commissioner of Correction. The act further provides that every Warden, Deputy Warden, Jail Keeper, Van Driver, Matron, Assistant Matron, Cook, Assistant Cook, Laundress, Cleaner, Bookkeeper, Jail Physician and Orderly employed in the county jails of Kings and Queens Counties, shall be transferred to the Department of Correction.

The Sheriff states that on May 31, 1912, pursuant to the provisions of the act, he turned over to the Commissioner of Correction the jail and all the criminal prisoners therein. He also states that the employees eligible to be transferred to the Department of Correction, under the new law, were a Warden at \$2,000, Orderly at \$1,300, three Keepers at \$1,000, and a Matron at \$800. The responsibility for the custody of all persons detained by civil process in the County of Queens remains with the Sheriff. The present request is made for the purpose of providing an adequate force to guard the civil prisoners. In the 1912 Budget appropriation for the County Jail, the Sheriff was allowed 19 employees at aggregate annual salaries amounting to \$18,100. For the proposed staff to take care of the civil prisoners he requests the establishment of the following positions: Warden, Deputy Warden, six Keepers, two Matrons, Cleaner and Bookkeeper, a total of 12 employees.

There appears to be a necessity for the employment of a responsible person as Warden in charge of the jail for civil prisoners, for the reason that the Sheriff may be called upon to personally pay damages in the event of his permitting a civil prisoner to escape. The salary heretofore paid the Warden of the jail was \$2,000 per annum, but he was responsible for the care and custody of both criminal and civil prisoners. On account of the reduced number of prisoners to be under his control \$1,200 appears to be a sufficient compensation for this position. The Sheriff asks for the fixation of the position of Bookkeeper because he will need a man to keep the records of the incoming and outgoing prisoners, have charge of the expenses of the Keepers and Deputies assigned to the duty of transferring prisoners, and to examine and pass upon the commitment papers presented. All of these duties should be taken care of by the Warden, and consequently the requested position of Bookkeeper is unnecessary. The position of Deputy Warden is not necessary for the reason that the duties imposed on the Warden under the new law can be performed without any further assistance. The Sheriff states that he requires six Keepers. The position of Keeper is necessary, but the number asked for appears to be too large, because the number of prisoners will be reduced. Two Keepers should be allowed, at the salary of \$1,000 each, which rate of salary has been heretofore paid in Queens County for such service, and which is the uniform rate in the other counties. Request is also made for two Matrons and one Cleaner. As the Sheriff has female prisoners from time to time, he will need the assistance of a Matron, who should be able also to take care of the necessary cleaning to be done. It is therefore recommended that the Sheriff be allowed one Matron. The salary paid the former Matron was \$800, and the Assistant Matron received \$600. The single position of Matron allowed should be at the rate of \$600 per annum.

The extent to which the Sheriff's request should be granted therefore is as follows: Warden at \$1,200, two Keepers at \$1,000 each, and one Matron at \$600. There are ample funds in the regular salary appropriation to meet all the salaries proposed. All the titles and grades herein proposed, except Matron at \$600 per annum, have been duly established.

We recommend therefore the adoption of the attached resolution establishing said grade and abolishing unnecessary grades in the office. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the Sheriff, County of Queens, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate per Annum.	Number of Incumbents.
Matron	\$600 00	1

—and that grades of positions as follows be hereby abolished:

Title.	Rate per Annum.	Number of Incumbents.
Warden	\$2,000 00	1
Orderly	1,300 00	1
Physician	1,200 00	1
Finger Print Clerk	1,200 00	1
Keeper	1,000 00	7
Matron	800 00	1
Assistant Matron	600 00	1
Cook	300 00	1
Laundress	250 00	1
Assistant Cook	250 00	1

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the above Committee to the Sheriff of Queens County.

The Secretary presented a report of the Committee on Standardization of Salaries and Grades, recommending that no action be taken on the petition of twelve employees in the office of the Sheriff of New York County for increases in their salaries, for the reason that said proposed increases are not offset by corresponding decreases and are, therefore, not in accordance with the policy of the Board.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the Sheriff, New York County.

(On May 9, 1912, the above petition was referred to said Committee.)

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Corporate Stock Budget Committee recommending, the issue of \$1,500 corporate stock to provide additional means for the improvement of the junction of Franklin and 3d avenues, Borough of The Bronx:

(On April 11, 1912, the request of the President of The Bronx for the above issue was referred to said Committee.)

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, April 1, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—On July 17, 1911, the Board of Estimate and Apportionment adopted a resolution authorizing an issue of corporate stock for the purpose of improving the junction of Franklin and 3d avenues.

Preliminary plans for the work have been prepared, and it is estimated that the cost of the improvement will be \$3,500.

Request is therefore made that an additional issue of corporate stock of \$1,500 be authorized for the purpose described. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 1, 1912, the President of the Borough of The Bronx requested \$1,500 in corporate stock in addition to amounts heretofore authorized, to provide funds for the improvement of the junction of Franklin and 3d avenues in the Borough of The Bronx. In connection therewith we report as follows:

On May 27, 1904, the Board of Estimate and Apportionment authorized \$2,000 for the work. At the request of the President, an additional allowance of \$2,000 was approved on June 3, 1910. As a result of later analysis by Engineers, the authorization of June 3, 1910, was rescinded, leaving the original \$2,000 available for the purpose. The President now states that preliminary plans have been prepared and his Engineers estimate that the work will cost \$3,500.

We recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

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 one thousand five hundred dollars (\$1,500) in addition to amounts heretofore authorized, to provide means for the improvement of the junction of Franklin and 3d avenues, in the Borough of The Bronx, under the jurisdiction of the President of the Borough of The Bronx, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Corporate Stock Budget Committee recommending, the issue of \$400 corporate stock to provide additional means for paving the roadways and sidewalks of bridges over the Harlem River Branch of the New York, New Haven and Hartford Railroad, Borough of The Bronx:

(On April 11, 1912, the request of the President of The Bronx for the above appropriation was referred to said Committee.)

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, April 1, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—In my communication of January 16, 1912, wherein was submitted the requirements for corporate stock issue for this office during the year beginning July 1, 1912, Schedule "C," "Rescindments," provision was made for the rescinding of the sum of \$400 of the balance of Code C. P. X.—31, "Highways, Borough of The Bronx, Paving Roadways and Sidewalks of Bridges over the Harlem River Branch of the New York, New Haven and Hartford Railroad."

I now desire to recall the proposed rescind, as the \$400 affected and \$400 additional will be required for paving yet to be done, which it is estimated will cost \$800.

At the time said corporate stock schedule was prepared, it was supposed that all the work possible to be done in paving the roadways of said bridges had been accomplished, but it is now found that the approaches to the bridge across said railroad at 172d street must be paved, as the American Real Estate Company have built approaches at that point and are using the bridge temporarily with a plank flooring over the concrete base.

I therefore request that an additional issue of corporate stock to the sum of \$400 be authorized for the purpose. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 1, 1912, the President of the Borough of The Bronx requested \$400 in corporate stock in addition to amounts heretofore authorized for the Corporate Stock Fund entitled "C. P. X.—31, Highways, Borough of The Bronx, Paving Roadways and Sidewalks of Bridges Over the Harlem River Branch of the New York, New Haven and Hartford Railroad." In connection therewith we report:

On June 5, 1908, the Board of Estimate and Apportionment authorized \$60,000 for this account. On June 3, 1910, \$27,000 of the original provision was rescinded. At the present time the account shows a cash balance of \$1.20 and a balance of \$400 unissued.

When the corporate stock estimate for 1912-1913 was submitted, the President stated that the balance available would not be required because the work of paving the bridges had been completed. It is now stated that the bridge at 172d street must be paved. It is estimated that \$400 in addition to the amount available will be required. The bridge is in use and the concrete flooring is covered with temporary planking, pending the authorization of funds for a permanent pavement and sidewalk over the bridge.

We recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

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 four hundred dollars (\$400) in addition to amounts heretofore authorized to provide means for the paving of roadways and sidewalks of bridges over the Harlem River Branch of the New York, New Haven and Hartford Railroad, under the jurisdiction of the President of the Borough of The Bronx, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Public Charities requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted July 17, 1911, authorizing the issue of \$25,000 corporate stock to provide means for the construction and equipment of an addition to bakery, Kings County Hospital, be amended by reducing said amount to

\$10,500, and further recommending the issue of \$14,500 corporate stock to provide means for the erection of an addition to the storehouse, Kings County Hospital, under the jurisdiction of said Department:

(On June 6, 1912, a communication from the Commissioner of Public Charities, requesting that the unexpended balance of \$14,500 in the former account be made available for the purpose of erecting an addition to the storehouse, Kings County Hospital, was referred to said Committee.)

Department of Public Charities of The City of New York, Foot of East 26th Street, May 29, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—On July 25, 1911, your Honorable Board adopted a resolution authorizing the issue of corporate stock in the sum of twenty-five thousand dollars (\$25,000), known as C. C. H.—39M, to provide means for the construction and equipment of addition to bakery, Kings County Hospital, under the jurisdiction of this Department.

The total liability against this account will not exceed the sum of \$10,500, which will leave an unencumbered balance of \$14,500 in excess of actual requirements. I therefore respectfully request your Honorable Board to authorize the transfer of \$14,500 from above account, C. C. H.—39M, to a new corporate stock account entitled "Enlarging Storehouse, Kings County Hospital."

The present storehouse does not admit of the proper receipt and distribution of merchandise, owing to lack of storage capacity, and also owing to the fact that the Bookkeeping Department encroaches on the storage capacity of the building. This authorization will provide ample facilities for years to come.

Trusting that the foregoing request will receive your early and favorable consideration, I am, respectfully yours,

M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 29, 1912, the Commissioner of Public Charities requested the amendment of a resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, authorizing an issue of corporate stock for the construction and equipment of an addition to the bakery at Kings County Hospital. In connection therewith we report as follows:

Corporate stock to the amount of \$25,000 was authorized on July 17, 1911, for the construction and equipment of an addition to the bakery at Kings County Hospital. Subsequently the plans were modified, because the erection of an addition to the heating and power plant required a portion of the ground originally intended for the bakery extension. This resulted in reducing the space available for bakery purposes and equipment. The liability incurred under the new conditions amounts to \$10,313.38, as follows:

Construction and equipment	\$9,730 00
Architect's fees	583 38

\$10,313 38

leaving an unencumbered balance of \$14,686.62. It is proposed to rescind \$14,500 of this balance and transfer it to a new corporate stock account, to be expended in enlarging the storehouse facilities at the Kings County Hospital.

The present storehouse building, erected in 1903, is a two-story brick structure, about 30 by 60 feet, with a one-story extension, 30 by 35 feet. A portion of both floors of the main building is used by the bookkeeping division of the department. A refrigerating plant is also located in the building. It is stated that the accommodations are inadequate for the receipt and distribution of the supplies for the various hospitals, approximating in cost \$300,000.

We recommend the adoption of the attached resolutions, one providing for the rescinding of \$14,500 of the original corporate stock authorization of \$25,000 for an addition to bakery; the other authorizing an issue of corporate stock in the sum of \$14,500, to be expended in enlarging the present storehouse. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, and adopted by the Board of Aldermen on July 25, 1911, as follows:

"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 twenty-five thousand dollars (\$25,000), to provide means for the construction and equipment of an addition to bakery, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

—be and the same is hereby amended to make the amount read ten thousand five hundred dollars (\$10,500).

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 fourteen thousand five hundred dollars (\$14,500), to provide means for the erection of an addition to the Storehouse, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

Negative—The President of the Board of Aldermen—3.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity relative to, and report of the Corporate Stock Budget Committee recommending, the issue of \$45,000 corporate stock to provide means for furnishing and laying a 30-inch distribution main and appurtenances in Cypress avenue, between Myrtle and Troutman avenues, Borough of Queens, and furnishing and installing the necessary meters therefor in connection with the improvement of the water supply system of said Borough, under the jurisdiction of the Department of Water Supply, Gas and Electricity:

(On June 20, 1912, the request of the Commissioner of Water Supply, Gas and Electricity for an issue of \$48,000 corporate stock for the above purpose was referred to said Committee.)

The City of New York, Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park row, New York, June 17, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York:

Dear Sir—For the past ten years we have been purchasing water from the Citizens' Water Supply Co., for distribution in the First Ward of the Borough of Queens, at the rate of \$65 per million gallons. But now, by making use of the main being laid by the Board of Water Supply between the Queens system and the Brooklyn system for the Catskill water, we can lay a 30-inch main from Myrtle avenue through Cypress avenue to Troutman avenue, connecting with the Forest Park plant, which is being operated under the Titus contract, and turn into the Queens system a large quantity of that water which costs only \$55 per million gallons. But under the Titus

contract, Brooklyn must take the yield of the Titus plant and the saving would be \$65 a million gallons for all the water taken from Brooklyn. This 30-inch main will be a permanent part of the distribution system.

The cost of laying the 30-inch main and installing the meters to measure the water would be \$48,000, and I respectfully request that the Board of Estimate and Apportionment authorize the issue of corporate stock in that amount for that purpose.

Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 17, 1912, the Commissioner of Water Supply, Gas and Electricity requested an issue of corporate stock, in the sum of \$48,000, to provide for furnishing and laying an additional 30-inch distribution main and appurtenances, and installing the necessary meters therefor in the Borough of Queens. In connection therewith we report as follows:

This main is to connect the Brooklyn system to the Queens system, utilizing the 48-inch main being laid by the Board of Water Supply to deliver Catskill water to Queens. For the present it is intended to deliver water from Brooklyn to the First Ward, Queens, reducing the amount of water to be purchased from the Citizens Water Supply Co., the contract price for water so purchased being \$65 per million gallons. The cost of the water delivered from Brooklyn would be about one-third of the price paid to the Citizens Company, and it is expected that several million gallons a day can be furnished.

Upon the introduction of the Catskill supply the new main will be available to feed a rapidly growing section of the Second Ward, Queens, assuming that the City acquires the distribution system of the Citizens Water Supply Co., and it will also be available to reinforce the distribution of water in the Borough of Brooklyn in the territory adjacent to the Queens-Brooklyn borough line in the Ridgewood section.

It is proposed to lay the main in Cypress avenue, from Myrtle to Troutman avenues. The departmental engineers state that the amount of water that can be thus diverted from Brooklyn to Queens is estimated at from 3,000,000 to 5,000,000 gallons per day.

If the amount of water now purchased from the Citizens Water Supply Company can be reduced by 3,000,000 gallons a day, the saving to the City in one year would be approximately the same as the amount requested for the proposed main, as follows:

3,000,000 gallons per day, at \$65 per million gallons, 365 days.....	\$71,175 00
Estimated cost of Brooklyn water substituted.....	23,725 00
Estimated saving	\$47,450 00

Estimated cost of proposed main..... \$48,000 00

The detailed estimates submitted contains an item of \$5,143, or approximately 12.7 per cent. for contingencies. On account of the unit prices used in the estimate the allowance for contingencies seems over liberal, and the work can probably be completed for \$45,000.

In view of the foregoing, and since the main will be a part of the permanent water supply system of the two boroughs, after the introduction of the Catskill supply, the proposed improvement appears to be necessary.

We recommend, therefore, the adoption of the attached resolution granting the request to the extent of \$45,000. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

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 forty-five thousand dollars (\$45,000), to provide means for furnishing and laying a 30-inch distribution main and appurtenances in Cypress avenue, between Myrtle and Troutman avenues, in the Borough of Queens, and furnishing and installing the necessary meters therefor, under the jurisdiction of the Department of Water Supply, Gas and Electricity, in connection with improving the water supply system of said Borough, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Borough of Queens, requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted July 17, 1911, authorizing the issue of \$5,000 corporate stock to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, be amended by reducing said authorization to \$4,000, also recommending the issue of \$1,000 corporate stock to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations under the jurisdiction of the Department of Parks, Borough of Queens:

The City of New York, Department of Parks, Borough of Queens, May 28, 1912.

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

Gentlemen—As we are entirely unprovided with that necessary item, I respectfully request that the sum of one thousand dollars be transferred to this Department from the line item No. C. D. P.—250 (total five thousand dollars) (plans and specifications for permanent improvements), assigned in 1911 to preparation of plans, etc., for the then united Departments of Parks for Brooklyn and Queens.

This amount, by conference and agreement between Commissioner Kennedy and the undersigned, is believed to represent the fair proportion of the sum representing the work that should be done in Queens.

Commissioner Kennedy indicates his willingness to have this transferred, and from the point of view of this Department, it is highly desirable and apparently a necessity. I respectfully request that this matter be looked into and the transfer made at as early a date as possible, in order to complete some of the work that was started under said appropriation, but which has been held in abeyance pending its transfer. If any further action is needed by this Department, if you will indicate its nature, it will be promptly attended to. Very respectfully,

W. G. ELIOT, Commissioner of Parks, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 28, 1912, the Commissioner of Parks, Borough of Queens, requested the transfer to his department of \$1,000 from the corporate stock account entitled "C. D. P.—250, Department of Parks, Brooklyn and Queens." In connection therewith we report as follows:

On July 17, 1911, the Board of Estimate and Apportionment, and on July 31, 1911, the Board of Aldermen authorized an appropriation of \$5,000 for preliminary work in preparation of plans and specifications for improvements requiring corporate stock authorizations under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens. Chapter 644 of the Laws of 1911, which became operative on July 11, 1911, provided for a Park Commissioner for the Borough of Queens. The Commissioner of Parks, Borough of Brooklyn, has consented to the transfer of the \$1,000 as the proper share for the new Park Department of Queens.

We recommend the adoption of the attached resolutions approving the rescindment of \$1,000 in the original appropriation and a new appropriation in the same amount. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, and approved by the Board of Aldermen on July 25, 1911, as follows:

"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 five thousand dollars (\$5,000), to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

—be amended to read as follows:

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 four thousand dollars (\$4,000), to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand dollars (\$1,000), to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond, requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted June 3, 1910, as amended February 8, 1912, relative to the issue of \$50,000 corporate stock for the erection of a music pavilion and comfort station and the erection of a refreshment pavilion in Central Park, under the jurisdiction of said Department, be further amended by inserting therein the words "including Architect's fees":

(On June 6, 1912, the request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the amendment of the above resolution was referred to said Committee.)

(On July 11, 1912, the above report was laid over.)

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, June 1, 1912.

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

Gentlemen—Under date of June 3, 1910, your Board authorized an issue of corporate stock to an amount of \$50,000, to provide means for the erection of a music, refreshment pavilion and comfort station at Mount St. Vincent in Central Park. Said resolution was concurred in by the Board of Aldermen under date of June 28, 1910. At a meeting of your Board held on February 8, 1912, you amended the resolution so as to provide means for the erection of a music pavilion and comfort station at a cost not to exceed \$40,000, and for the erection of a refreshment pavilion at a cost not to exceed \$10,000, in Central Park. I respectfully request that you further amend the resolution by inserting the words "including Architects' services."

This request is made necessary for the reason that since your previous modification the Architect of this Department resigned, and the services of an outside Architect will be required to prepare the plans and specifications.

I attach hereto the resolution previously adopted by your Board, and a copy of the resolution as revised.

I further request that you give this your immediate attention, as I am particularly anxious of having the building completed and ready for dedication on September 29 of this year. Very truly yours,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 25, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 1, 1912, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested amendment of a resolution adopted February 8, 1912, authorizing an issue of corporate stock in the sum of \$40,000, for the erection of a music pavilion and comfort station, and \$10,000 for the erection of a refreshment pavilion in Central Park. In connection therewith we report as follows:

The Commissioner states that owing to the resignation of the Architect of the Department, it was necessary to secure the services of an outside Architect to prepare plans and specifications for music pavilion, comfort station and refreshment pavilion. We recommend the adoption of the attached resolution approving the request.

Resolved,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on February 8, 1912, and approved by the Board of Aldermen on February 27, 1912, as follows:

"Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and approved by the Board of Aldermen on June 28, 1910, as follows:

"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 fifty thousand dollars (\$50,000), to provide means for the erection of a music, refreshment pavilion and comfort station at Mount St. Vincent, Central Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and he 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 fifty thousand dollars (\$50,000), the proceeds whereof to be applied to the purpose aforesaid."

—be amended to read as follows:

"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 fifty thousand dollars (\$50,000), to provide means for the erection of a music pavilion and comfort station at a cost not to exceed forty thousand dollars (\$40,000), and for the erection of a refreshment pavilion at a cost not to exceed ten thousand dollars (\$10,000), in Central Park, under the jurisdiction of the Department 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 fifty thousand dollars (\$50,000), the proceeds whereof to be applied to the purpose aforesaid."

—be amended to read as follows:

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 fifty thousand dollars (\$50,000), including Architect's fees, to provide means for the erection of a music pavilion and comfort station at a cost not to exceed forty thousand dollars (\$40,000), and for the erection of a refreshment pavilion at a cost not to exceed ten thousand dollars (\$10,000), in Central Park, under the jurisdiction of the Department 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 fifty thousand dollars (\$50,000), the proceeds whereof to be applied to the purpose 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Corporate Stock Budget Committee recommending, the issue of \$5,000 corporate stock to provide for the purchase by said Borough President of one steam roller and two tank wagon asphaltic oil heaters; also recommending approval of a schedule for said fund:

(On March 21, 1912, the request of the President of the Borough of Richmond for the above appropriation was referred to said Committee.)

(On July 11, 1912, the above report was laid over.)

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, March 12, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—We would ask, in addition to other requests, now pending, the appropriation of \$5,000 corporate stock for purpose of purchasing one steam road roller and two tank wagon asphaltic oil heaters.

The last roller we purchased cost \$3,150, so that \$3,200 should cover the same at the present time, and the heating tanks will cost about \$900 each, so that we ask for them, \$1,800 making the above named total of \$5,000.

We have under our care something over seventy miles of macadam roads which will have to be changed as fast as can be done into some form of asphaltic surface roads. The automobile wear and tear prevents proper maintenance of water bound macadam.

In view of our experience of the past several years, each gang of men, equipped with two steam rollers, and two or three tank wagons, can treat, in thorough manner, between six and seven miles of roads each season. We have been operating two such gangs, but are not able to keep up with the necessities of the case, so should install at once this season another complete outfit, which will require the roller and tank wagons above noted.

We have already made request for a portable asphalt mixing plant which will be of very great service. In fact, essential to this class of work. Such a plant would not run to its best economy with two gangs in operation, but can be worked to advantage with three.

Our general estimate is that with these three complete outfits, and a central mixing plant, we can in from three to four years complete the work in sight, by which time we shall have to practically begin over again on the roads which have been treated in the last two or three years. In other words, our general idea of the life of such half-way pavement is four to five years, costing approximately eighty cents per square yard for each complete treatment, as against twice that for the cheapest forms of original bituminous pavements, which will probably not have a life of more than 30 or 40 per cent. greater length than those which we treat ourselves.

Our suggestion would be that ten or fifteen year corporate stock be issued for this purpose. Yours respectfully,

GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, May 2, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 12, 1912, the President of the Borough of Richmond requested an issue of \$5,000 in corporate stock to provide for the purchase of a steam roller and two tank asphaltic oil heaters. In connection therewith we report as follows:

The President states that there are under maintenance in the Borough over seventy miles of water bound macadam roads, which will have to be changed as fast as possible into some form of asphaltic surface roads. He also states that experience has shown that economical maintenance of water bound macadam roads is impossible where there is extensive automobile traffic, as in the Borough of Richmond.

The road maintenance forces in Richmond consists of two gangs, with two steam rollers and two or three tank wagons. In a working season each gang can treat about seven miles of road. The President states that the two gangs cannot keep up with the necessary work, and therefore proposes to add another gang, which will require the steam roller and the two heater tanks.

The last steam roller purchased for the Borough cost \$3,150, and the estimated cost of heater tanks is \$900 each.

We recommend the approval of the request by the adoption of the attached resolutions providing for the maturing of the bonds not more than ten years after date of issue and approving a schedule for the account. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Borough of Manhattan; JOHN PURROY MITCHEL, President, Board of Aldermen, Corporate Stock Budget Committee.

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, maturing not more than ten (10) years after date of issue, to an amount not exceeding five thousand dollars (\$5,000), to provide means for the purchase of one steam roller and two tank wagon asphaltic oil heaters for the use of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule for appropriations made to the President of the Borough of Richmond for the year 1912, as follows:

PRESIDENT, BOROUGH OF RICHMOND.

Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, Except Automobiles—

2141 Highways	\$8,225 00
Tax levy allowance	\$3,225 00
Corporate Stock allowance.....	5,000 00
Total allowance.....	\$8,225 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Chairman of the Public Service Commission, calling the attention of the Board to the importance of definite action upon the award of contracts for the construction of Sections 2-A and 14 of Route No. 5, Lexington Avenue Subway;

Also the following communication from the Public Service Commission requesting, and report of the Comptroller recommending, that the Board consent to the award of the proposed contract between the O'Rourke Engineering Construction Company and The City of New York for the construction of Section 2-A, Route No. 5, of the Lexington Avenue Subway, extending along Broadway, beginning about 90 feet north of the centre line of Walker street to about 50 feet north of the centre line of Howard street, and authorize the issue of \$912,351.60 corporate stock to provide means for the execution of said contract;

(On April 11, 1912, the request of the Public Service Commission for approval of the award of the above contract and the authorization of bonds therefor was referred to the Comptroller.)

(On April 25, May 2, 9, 16, 23 and 31, June 6, 13 and 20, 1912, the above report was laid over for one week, and on June 27, 1912, laid over.)

And the following communication from the Secretary of the Public Service Commission transmitting copy of stipulation entered into by the O'Rourke Engineering Construction Company, under date of May 22, 1912, relative to the above proposed contract:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau street, New York, July 12, 1912.

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

Sirs—The Public Service Commission for the First District deems it advisable, in view of the anticipated adjournment of your Board for a considerable period of time, to call attention to the importance of definite action upon the contracts submitted by this Commission for the construction of Sections 2-a and 14 of Route No. 5. The contract for Section 2-a was awarded by this Commission on March 30, 1912, and under date of March 30, 1912, was transmitted to your Board for approval and the appropriation of the necessary amount of money to carry the contract into execution. On Section 14, the Commission awarded the contract on May 14, 1912, and transmitted it on the same date to your Board for approval and appropriation of the amount necessary to carry the contract into execution.

In both cases the Commission awarded the contract to the lowest bidder, and is not aware of any difficulty which would make action on these contracts inadvisable at the present time. On the contrary, unless action is taken very shortly upon the contract for Section 2-a, the Commission must consider the advisability of stopping work on Sections 2 and 3. As you have already been informed, since the award of the contract for Section 2-a by this Commission, an understanding has been arrived at by which physical connections are to be provided for on this section between the Broadway line and the Canal street line, and the proposed contractor has signed a stipulation whereby he agrees to do such additional work under the proposed contract. Provision for such physical connection between the Canal street line and the Broadway line requires certain changes in the plans, not merely on Section 2-a but also upon Sections 2 and 3. As the work on these two sections has already advanced, it will shortly become important to issue to the contractors revised plans. The Commission, however, does not deem it advisable to issue such plans until the disposal of the contract for Section 2-a is determined.

The Commission further suggests that should your Board now adjourn for a considerable period, some delay may ensue as to the prompt commencement of construction work on other sections. The Commission will open bids on July 31, 1912, on the contract for Section 1-a of Route No. 5 and within three or four days thereafter will probably be in a position to make the award of such contract. That contract should be approved and an appropriation provided therefor at the earliest date, in order that the contractor thereon may commence construction as early as possible. Two or three other sections will be submitted for bids during the month of August and prompt action upon them is desirable.

The Commission deems it advisable to bring this subject to your attention, for the reason that it is advisable that construction work on the so-called "long term" portions of the rapid transit systems should be undertaken with a minimum of delay, so far as the procedure prior to the execution of the contracts is concerned.

Very truly yours, W. R. WILLCOX, Chairman.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau street, New York, April 1, 1912.

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

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and O'Rourke Engineering Construction Co. for the construction at the public expense of Section No. 2-a of the Lexington Avenue Rapid Transit Railroad or Route No. 5, including the underlying portion of the Canal Street Rapid Transit Railroad or Route No. 20. Said Section No. 2-a begins at a point under Broadway about ninety feet north of the centre line of Walker street and extends thence northerly under Broadway for about five hundred and thirty feet to a point about fifty feet north of the centre line of Howard street, and includes the underlying portion of the Canal Street Rapid Transit Railroad or Route No. 20, extending under Canal street and Broadway and under and across the portion of the Lexington Avenue route above described a distance of about one hundred and fifty-seven feet.

The Public Service Commission for the First District further requests your Honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60), and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60).

In witness whereof, the Public Service Commission for the First District has caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 1st day of April, 1912.

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

[SEAL.]

Attest: TRAVIS H. WHITNEY, Secretary.

Resolved, That this Commission hereby accepts the proposal of O'Rourke Engineering Construction Co., dated March 22, 1912, for the construction of Section No. 2-a of the Lexington Avenue Rapid Transit Railroad or Route No. 5, including the underlying portion of the Canal Street Rapid Transit Railroad or Route No. 20, which said Section No. 2-a begins at a point under Broadway, in the Borough of Manhattan, about ninety feet north of the centre line of Walker street and extends thence northerly under Broadway for about five hundred and thirty feet to a point about fifty feet north of the centre line of Howard street, and which said underlying portion of the Canal Street Rapid Transit Railroad extends under Canal street and Broadway and under and across the portion of the Lexington Avenue route above described a distance of about one hundred and fifty-seven feet, the aggregate of the unit prices in the said proposal amounting to nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60).

Resolved, That the Chairman and the Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said O'Rourke Engineering Construction Co. with the requirements of the invitation to bidders attached to the said proposal.

Resolved, That the Chairman and the Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60), and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad, and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60).

Resolved, That the Secretary give notice to the said O'Rourke Engineering Construction Co. that its proposal has been accepted and the contract awarded to it by this Commission subject to its being consented to by the Board of Estimate and Apportionment, as required by law.

Resolved, That it be referred to Counsel to the Commission to inquire into the sufficiency of the sureties or securities proposed to be given by the said O'Rourke Engineering Construction Co., and on behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of proper securities or a proper bond.

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 March 30, 1912, 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 first day of April, 1912.

[SEAL.]

TRAVIS H. WHITNEY, Secretary.

Public Service Commission for the First District—Invitation to Contractors and Forms of Contract, Bond and Contractor's Proposal for Construction of a Part of a Rapid Transit Railroad, portion of Lexington Avenue Route (Route No. 5), Section No. 2-A.

Form finally adopted by the Commission February 27, 1912, and approved as to form by the Corporation Counsel and filed on commencement of advertisement of invitation to contractors.

INVITATION TO CONTRACTORS.

PART OF LEXINGTON AVENUE ROUTE.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct Section No. 2-A of the Lexington Avenue Rapid Transit Railroad including the underlying portion of the Canal Street Rapid Transit Railroad or Route No. 20.

The points within the City between which the said part is to run and the route or routes to be followed are briefly as follows:

Section No. 2-A. Beginning at a point under Broadway about ninety (90) feet north of the centre line of Walker street and extending thence northerly under Broadway for about five hundred and thirty (530) feet to a point about fifty (50) feet north of the centre line of Howard street; including the underlying portion of the Canal Street Rapid Transit Railroad, or Route No. 20 extending under Canal Street and Broadway and under and across the portion of the Lexington Avenue Route above described a distance of about one hundred and fifty-seven (157) feet.

The general plan of construction calls for a subsurface railroad having four tracks for such portion of the Lexington Avenue Route and two tracks for such underlying portion of the Canal Street Route; all of which are more particularly indicated on the contract drawings.

Bidders will not be required to do the station-finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract will include the construction of all necessary sewers and connections, along the route of the railroad in Broadway and in Canal street; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, surface railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be by trench excavation under cover, unless otherwise permitted by the Commission.

Bidders must examine the form of contract and the specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

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 and in the contract drawings therein referred to. Printed copies of the form of contract, bond and contractor's proposal may be had on application at the office of the Commission, No. 154 Nassau Street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars (\$5.00). The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

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

The Contractor will be required to complete the work as soon as practicable and within a period of forty (40) months.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau street, Borough of Manhattan, City of New York, until the 22d day of March, 1912, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Separate proposals must be submitted for the portion of the Lexington Avenue Route above described and for the underlying portion of the Canal Street Route above described. The Commission may accept the proposal for such portion of the Lexington Avenue Route while at the same time rejecting the accompanying proposal for such portion of the Canal Street Route. Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

Statements based upon estimates of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required on such portion of the Lexington Avenue Route and on such portion of the Canal Street Route are to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

If the contract as awarded embraces both such portion of the Lexington Avenue Route and such portion of the Canal Street Route, the Commission further reserves the right to omit such portion of the Canal Street Route upon the terms and conditions stated in the form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Part of Rapid Transit Railroad—Route No. 5, Section No. 2-A," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting 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 separate certified check drawn upon a national or state bank or trust company having its principal office in the City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for

the sum of fifteen thousand (\$15,000) dollars. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

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

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

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

A 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 consented to 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 for thirty-five thousand (\$35,000) dollars if the contract as awarded embraces only such portion of the Lexington Avenue Route and fifty thousand (\$50,000) dollars if the contract as awarded embraces both such portion of the Lexington Avenue Route and such portion of the Canal Street Route. 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 fifteen (15%) per centum of the amounts certified from time to time to be due to the Contractor will be deducted until the amounts so deducted and retained shall equal the sum of one hundred thousand (\$100,000) dollars if the contract as awarded embraces only such portion of the Lexington Avenue Route, and one hundred and fifty thousand (\$150,000) dollars if the contract as awarded embraces both such portion of the Lexington Avenue Route and such portion of the Canal Street Route. Thereafter there shall be so deducted and retained for such purpose ten (10%) per centum of the amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so retained upon depositing in lieu thereof corporate stock of The City of New York equal in market value to the amounts so withdrawn.

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond or to make the required deposit, 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 such 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 interests 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.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to 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 to make the required deposit, then the Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage 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 in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, February 27, 1912.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By WILLIAM R. WILLCOX, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT. CONTRACT FOR THE CONSTRUCTION OF A PART OF A RAPID TRANSIT RAILROAD, ROUTE NO.

5, SECTION NO. 2-A.

Approved as to form this 27th day of February, 1912.

JOHN L. O'BRIEN, Acting Corporation Counsel.

RAPID TRANSIT RAILROAD.

CONTRACT.

ROUTE NO. 5, SECTION NO. 2-A.

Agreement made this _____ day of _____, 1912, 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 O'Rourke Engineering Construction Co., a corporation organized and existing under the laws of the State 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 covenants and agreements 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, the parties do hereby, 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.

Article I. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. 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.

Article II. 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 12, 1905, and which as modified is known as the Lexington Avenue Route—or Route No. 5; and a part of a certain route adopted by the Commission on February 4, 1908, and which is known as the Canal Street Route—or Route No. 20. The part to be constructed under this contract consists of

Section No. 2-A.

Section No. 2-A. Walker Street to Howard Street. Beginning at a point under Broadway about ninety (90) feet north of the centre line of Walker street and extending thence northerly under Broadway for about five hundred and thirty (530) feet to a point about fifty (50) feet north of the centre line of Howard street; together with a portion of the Canal Street Rapid Transit Railroad, or Route No. 20 extending along Canal Street for about one hundred and fifty-seven (157) feet under and across the portion of the Lexington Avenue Route above described.

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.

Statutes Incorporated Herein.

Article III. 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.

Article IV. Titles, headings, running headlines 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.

Article V. 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 of the location, construction, equipment, maintenance 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 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, chapter 429 of the laws of 1907, chapter 498 of the laws of 1909, chapters 205, 504, 505 and 506 of the laws of 1910, and chapter 888 of the laws of 1911, 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 or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) 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."

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

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice," "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed," or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor—Address May Be Changed.

Article VI. 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 post-paid 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.

Article VII. 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.

Article VIII. The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of the proposed 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, PRICES, ETC.

Work to be Done.

Article IX. The Contractor shall do all the work and furnish all the materials, plant, tools and appliances necessary or proper for performing and completing the work of constructing the Railroad in the manner and within the time hereinafter specified. He shall complete the Railroad and do all work and furnish all labor and materials in and about the construction of the Railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, that said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Incidental Work.

Article X. In order to construct the Railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and main-

tain a temporary pavement in the roadways, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all surface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, 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, including vaults of abutting property, 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 (except as herein provided in respect of temporary pavements for roadways), 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, 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 for the prices herein agreed upon.

Prices.

Article XI. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the Railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

SCHEDULE OF UNIT PRICES FOR THE ABOVE DESCRIBED PORTION OF THE LEXINGTON AVENUE ROUTE.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of six and 25/100 dollars (\$6.25/100) per cubic yard.

Item 2. For earth excavation below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of seven and no/100 dollars (\$7.00/100) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of six and no/100 dollars (\$6.00/100) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of six and no/100 dollars (\$6.00/100) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of one hundred and no/100 dollars (\$100.00/00) per lineal front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories in height the sum of one hundred and fifty and no/100 dollars (\$150.00/00) per lineal front foot of building underpinned.

Item 6. For concrete masonry, in place, the sum of nine and 50/100 dollars (\$9.50/100) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight and 50/100 dollars (\$8.50/100) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of seven and no/100 dollars (\$7.00/100) per cubic yard.

Item 9. For brick masonry, in place, the sum of eighteen and no/100 dollars (\$18.00/100) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen and no/100 dollars (\$15.00/100) per cubic yard.

Item 11. For grout of Portland cement, the sum of one and 75/100 dollars (\$1.75/100) per barrel of Portland cement used.

Item 12. For timber piles, in place and prepared, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 13. For timber foundations, placed and fastened, the sum of seventy-five and no/100 dollars (\$75.00/100) per thousand feet, board measure.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of one and 75/100 dollars (\$1.75/100) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of fifty cents (\$0.50/100) per square yard.

(b) For two-ply, the sum of eighty cents (\$0.80/100) per square yard.

(c) For three-ply, the sum of one and no/100 dollars (\$1.00/100) per square yard.

(d) For four-ply, the sum of one and 30/100 dollars (\$1.30/100) per square yard.

(e) For five-ply, the sum of one and 75/100 dollars (\$1.75/100) per square yard.

(f) For six-ply, the sum of two and no/100 dollars (\$2.00/100) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of twenty-seven and 50/100 dollars (\$27.50/100) per cubic yard.

Item 17. For vitrified or cast-iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

(b) For ten (10) inch vitrified pipe, the sum of eighty cents (\$0.80/100) per lineal foot.

(c) For eight (8) inch vitrified pipe, the sum of sixty cents (\$0.60/100) per lineal foot.

(d) For six (6) inch vitrified pipe, the sum of fifty cents (\$0.50/100) per lineal foot.

(e) For four (4) inch vitrified pipe, the sum of thirty-five cents (\$0.35/100) per lineal foot.

(g) For six (6) inch cast-iron pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

(h) For four (4) inch cast iron pipe, the sum of seventy-five cents (\$0.75/100) per lineal foot.

Item 18. For tunnel ducts in place as required by Section No. 269 of the specifications, the sum of fifteen cents (\$0.15/100) per duct foot.

Item 19. For riveted steel, painted and erected, the sum of seventy and no/100 dollars (\$70.00/100) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of sixty-five and no/100 dollars (\$65.00/100) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty and no/100 dollars (\$60.00/100) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings (other than tunnel lining) such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of sixty-five and no/100 dollars (\$65.00/100) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten cents (\$0.10/100) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of sixty cents (\$0.60/100) per lineal foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of one and 65/100 dollars (\$1.65/100) per square foot.

Item 29. For vault lights, in place, the sum of one and 75/100 dollars (\$1.75/100) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of two and no/100 dollars (\$2.00/100) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of one and 50/100 dollars (\$1.50/100) per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of fifteen cents (\$0.15/100) per lineal foot.

(b) For one and one-half (1½) inch wrought-iron conduits the sum of twenty-five cents (\$0.25/100) per lineal foot.

(c) For two (2) inch wrought-iron conduits the sum of thirty cents (\$0.30/100) per lineal foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one and no/100 dollars (\$1.00/100) each.

Item 34. For cast-iron pipe and fittings including specials "extra heavy" in place, in stations, as follows:

(a) For six (6) inch the sum of one and 50/100 dollars (\$1.50/100) per lineal foot.

(b) For three (3) inch the sum of 80 cents (\$0.80/100) per lineal foot.

SEWERS.

Vitrified and Cast-iron Pipe.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of three and 50/100 dollars (\$3.50/100) per lineal foot.

Egg-shaped Brick or Concrete Sewers.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of eight and no/100 dollars (\$8.00/100) per lineal foot.

Item 47. For 4 feet by 2 feet 8 inches, the sum of twelve and no/100 dollars (\$12.00/100) per lineal foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete.

Item 54. For 4 feet 3 inches, the sum of twelve and no/100 dollars (\$12.00/100) per lineal foot.

Item 55. For 4 feet 9 inches, the sum of thirteen and no/100 dollars (\$13.00/100) per lineal foot.

Item 57. For 5 feet 6 inches, the sum of fifteen and no/100 dollars (\$15.00/100) per lineal foot.

SURFACE AND SUB-SURFACE STRUCTURES.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of twelve and no/100 dollars (\$12.00/100) per lineal foot of single track.

(b) For horse railroads, the sum of five and no/100 dollars (\$5.00/100) per lineal foot of single track.

PIPES IN STREETS.

*For Work and Material as Called for by Section No. 60 of the Specifications.**Water and Gas Pipes.*

Water Pipes.

For water pipes in place, as follows:

Item 79. For 6-inch water pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 82. For 12-inch water pipe, the sum of one and 25/100 dollars (\$1.25/100) per lineal foot.

Item 83. For 16-inch water pipe, the sum of one and 75/100 dollars (\$1.75/100) per lineal foot.

Item 84. For 20-inch water pipe, the sum of two and 25/100 dollars (\$2.25/100) per lineal foot.

Item 86. For 30-inch water pipe, the sum of three and 25/100 dollars (\$3.25/100) per lineal foot.

Gas Pipes.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of seventy cents (\$0.70/100) per lineal foot.

Item 91. For 6-inch gas pipe, the sum of eighty cents (\$0.80/100) per lineal foot.

Item 92. For 8-inch gas pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 93. For 10-inch gas pipe, the sum of one and 25/100 dollars (\$1.25/100) per lineal foot.

Item 94. For 12-inch gas pipe, the sum of one and 50/100 dollars (\$1.50/100) per lineal foot.

Item 95. For 16-inch gas pipe, the sum of two and no/100 dollars (\$2.00/100) per lineal foot.

Item 96. For 20-inch gas pipe, the sum of three and no/100 dollars (\$3.00/100) per lineal foot.

New Cast-iron Hub and Spigot Water and Gas Pipe.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty and no/100 dollars (\$40.00/100) per ton of two thousand pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work, the sum of seventy-five and no/100 dollars (\$75.00/100) per ton of two thousand pounds.

High Pressure Fire System Pipes, Standard Spigot and Grooves.

For high pressure fire system pipe in place, as follows:

Item 102. For 8-inch high pressure fire system water pipe, the sum of two and no/100 dollars (\$2.00/100) per lineal foot.

Item 103. For 12-inch high pressure fire system water pipe, the sum of three and no/100 dollars (\$3.00/100) per lineal foot.

Item 104. For 16-inch high pressure fire system water pipe, the sum of four and no/100 dollars (\$4.00/100) per lineal foot.

New Cast-iron Spigot and Groove Pipe for High Pressure Fire System.

Item 107. For new cast-iron spigot and groove straight pipe delivered on the work, the sum of forty and no/100 dollars (\$40.00/100) per ton of two thousand pounds.

Item 108. For new cast-iron spigot and groove pipe, special castings, delivered on the work the sum of seventy-five and no/100 dollars (\$75.00/100) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

Other than tunnel ducts and street railroad ducts, which are provided for in Items 61 of the Specifications, the sum of forty-five cents (\$0.45/100) per duct foot.

Item 127. For electric ducts and conduits in place, as provided in Section No. 61 of the Specifications, the sum of forty-five cents (\$0.45/100) per duct foot.

SCHEDULE OF UNIT PRICES FOR THE ABOVE DESCRIBED PORTION OF THE CANAL STREET ROUTE.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of six and 25/100 dollars (\$6.25/100) per cubic yard.

Item 2. For earth excavation below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., as follows:

(x) For earth excavation below mean high water from mean high water to twenty feet below mean high water, the sum of seven and no/100 dollars (\$7.00/100) per cubic yard.

(y) For earth excavation below a plane twenty feet below mean high water, the sum of ten and no/100 dollars (\$10.00/100) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of six and no/100 dollars (\$6.00/100) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of twenty-five and no/100 dollars (\$25.00/100) per lineal front foot of building underpinned.

(a-x) For buildings less than seven stories in height, the sum of one and no/100 dollars (\$1.00/100) per lineal front foot of building underpinned in addition to the price for item 4-a in the schedule of unit prices for the portion of the Lexington Avenue Route.

(b-x) For buildings from seven to twelve stories in height, the sum of one and 50/100 dollars (\$1.50/100) per lineal front foot of building underpinned in addition to the price for item 4-b in the schedule of unit prices for the position of the Lexington Avenue Route.

Item 6. For concrete masonry, in place, the sum of nine and 50/100 dollars (\$9.50/100) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight and 50/100 dollars (\$8.50/100) per cubic yard.

Item 8. For rubble stone masonry in place, the sum of seven and no/100 dollars (\$7.00/100) per cubic yard.

Item 9. For brick masonry, in place, the sum of eighteen and no/100 dollars (\$18.00/100) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen and no/100 dollars (\$15.00/100) per cubic yard.

Item 12. For timber piles, in place and prepared, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 13. For timber foundations, place and fastened, the sum of seventy-five and no/100 dollars (\$75.00/100) per thousand feet, board measure.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of fifty cents (\$0.50/100) per square yard.

(f) For six-ply, the sum of two and no/100 dollars (\$2.00/100) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of twenty-seven and 50/100 dollars (\$27.50/100) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(c) For eight (8) inch vitrified pipe, the sum of sixty cents (\$0.60/100) per lineal foot.

Item 18. For tunnel ducts in place as required by Section No. 269 of the Specifications, the sum of fifteen cents (\$0.15/100) per duct foot.

Item 19. For riveted steel, painted and erected, the sum of seventy and no/100 dollars (\$70.00/100) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of sixty-five and no/100 dollars (\$65.00/100) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty and no/100 dollars (\$60.00/100) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings (other than tunnel lining) such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of sixty-five and no/100 dollars (\$65.00/100) per ton of two thousand pounds.

Item 30. For street surface restored:

(b) For temporary restoration and maintenance of roadway, the sum of one and 50/100 dollars (\$1.50/100) per square yard.

Item 34. For cast-iron pipe and fittings including specials "extra heavy" in place, in stations, as follows:

(a) For six (6) inch, the sum of one and 50/100 dollars (\$1.50/100) per lineal foot.

(b) For three (3) inch, the sum of eighty cents (\$0.80/100) per lineal foot.

SEWERS.

Egg-shaped Brick or Concrete Sewers.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of eight and no/100 dollars (\$8.00/100) per lineal foot.

Item 57. For 5 feet 6 inches, the sum of fifteen and no/100 dollars (\$15.00/100) per lineal foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of twelve and no/100 dollars (\$12.00/100) per lineal foot of single track.

PIPES IN STREETS.

*For Work and Material as Called for by Section No. 60 of the Specifications.**Water and Gas Pipes.*

Water Pipes.

For water pipes in place, as follows:

Item 79. For 6-inch water pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 82. For 12-inch water pipe, the sum of one and 25/100 dollars (\$1.25/100) per lineal foot.

Item 84. For 20-inch water pipe, the sum of two and 25/100 dollars (\$2.25/100) per lineal foot.

Gas Pipes.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of seventy cents (\$0.70/100) per lineal foot.

Item 92. For 8-inch gas pipe, the sum of one and no/100 dollars (\$1.00/100) per lineal foot.

Item 93. For 10-inch gas pipe, the sum of one and 25/100 dollars (\$1.25/100) per lineal foot.

Item 94. For 12-inch gas pipe, the sum of one and 50/100 dollars (\$1.50/100) per lineal foot.

Item 95. For 16-inch gas pipe, the sum of two and no/100 dollars (\$2.00/100) per lineal foot.

Item 96. For 20-inch gas pipe, the sum of three and no/100 dollars (\$3.00/100) per lineal foot.

New Cast-iron Hub and Spigot Water and Gas Pipe.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty and no/100 dollars (\$40.00/100) per ton of two thousand pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work, the sum of seventy-five and no/100 dollars (\$75.00/100) per ton of two thousand pounds.

High Pressure Fire System Pipes, Standard Spigot and Grooves.

For high pressure fire system pipe in place, as follows:

Item 103. For 12-inch high pressure fire system water pipe, the sum of three and no/100 dollars (\$3.00/100) per lineal foot.

Item 107. For new cast-iron spigot and groove straight pipe delivered on the work, the sum of forty and no/100 dollars (\$40.00/100) per ton of two thousand pounds.

Item 108. For new cast-iron spigot and groove pipe, special castings, delivered on the work, the sum of seventy-five and no/100 dollars (\$75.00/100) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).

Item 127. For electric ducts and conduits in place, as provided in Section No. 61 of the Specifications, the sum of forty-five cents (\$0.45/100) per duct foot.

Work Not Susceptible of Classification.

Article XII. In case any work or materials shall be required to be done or furnished in or about the Works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above; but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as herein otherwise expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this Article, for cost plus ten (10%) per centum, the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid

or to be paid to him, and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memoranda showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article XIII. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the Works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the Works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article XIV. 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.

Plans May Be Modified.

Article XV. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interests, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Portion of Canal Street Route May Be Omitted.

The Commission further reserves the right at any time to omit the construction of the portion of the Canal Street Route, hereinbefore described; provided, however, that if the Contractor has prior to the date of the direction for such omission provided plant (which plant shall not be provided until directed by the Engineer) or begun work upon such route, the City shall pay him as a condition of such omission reasonable compensation for such use of such plant and compensation for work actually done in accordance with the Schedule of Unit Prices or where not susceptible of classification then as otherwise provided herein, but the Contractor shall make no claim for anticipated profit, or for loss of profit, because of such omission.

Contractor Bound to Complete in Best Manner.

Article XVI. 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 herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article XVII. The Contractor shall 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 herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, Etc.

Article XVIII. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to damages or an extension of time for completion of the Works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, Etc.

Article XIX. 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 part of the Works.

Inspection.

Article XX. 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.

Article XXI. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, 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 all employees of the Commission 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.

Engineer to be Furnished Facilities.

Article XXII. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article XXIII. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work or any part thereof shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon 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 remove such materials.

Engineer's Determination—To Be Final and Conclusive Upon Contractor.

Article XXIV. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the Works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article XXV. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions con-

templated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the Railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article XXVI. 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.

III.

SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class—Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section No. 1. 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 in advance to show all details, or precisely to 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 inter-urban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and 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. 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.

To Construct in Accordance with Specifications.

Section No. 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII of the contract.

Maps and Drawings.

Section No. 3. The contract plans referred to in the contract and specifications bear date December 15, 1911, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

ROUTE No. 5.—SECTION No. 2-A.

Contract Drawing No.

and are designated or numbered as follows:

Numbers A-4, B-200, 201, 208, C-1 to C-6 inclusive, C-401 and C-1001.

Typical Sections and Dimensions.

Section No. 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section No. 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract-drawings, but designated as Supplementary Drawings. 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 surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and sub-surface structures.

Supplementary Drawings May Be Examined.

Section No. 6. These supplementary drawings can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for such aid, if any, as may be derived from them, on the payment of the cost of blue-printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section No. 7. If, upon opening the streets, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, 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 take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or sub-surface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section No. 8. 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.

Sub-divisions of Specifications.

Section No. 9. These specifications are grouped in subdivisions as follows:

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Brief Description of the Work.

General Nature.

Section No. 10. The Rapid Transit Railroad, which is hereinbefore described is to be a four track underground railroad or subway, together with an underlying two

track transverse subway, the general details of construction and the location of the various tracks, grades, etc., being indicated more particularly on the contract drawings.

Stations to Be Constructed.

Section No. 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidentally with the completion of the Railroad.

Surface and Sub-surface Structures.

Section No. 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Gratings.

Section No. 13. Openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad. If, owing to local conditions, it becomes necessary to lead the air to the gratings, suitable air-ways, ducts or flues shall be constructed.

2

General Clauses.

Prevention of Water Percolation.

Section No. 14. 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. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section No. 15. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section No. 16. 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 abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyance to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section No. 17. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system, which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonably probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section No. 18. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section No. 19. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to Be Filed with Borough President.

Section No. 20. Before any opening is made in the surface of a street, a copy of the permit issued by the Commission shall 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.

Notice Regarding Commencement of Work.

Section No. 21. 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.

Shafts and Dumping Platforms.

Section No. 22. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall 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.

Ordinances and Regulations.

Section No. 23. In all operations connected with the Works, all ordinances of the City, and of the Board of Health, so far as they may be valid and operative with respect thereto, 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, shall 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.

Requirements of Borough President, etc., to Be Observed.

Section No. 24. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, waterpipe, gas-pipe, 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 sub-surface structures so interfered with, disturbed or endangered.

Building and Water Permits, Shut-Offs for Water Pipes, etc.

Section No. 25. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of any inspection charge in connection therewith. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in Section No. 59 of the specifications.

Storage on Cross-Streets.

Section No. 26. No materials of any nature shall be stored along the streets occupied by the Railroad. 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 such structural material as may be absolutely necessary to avoid delay in construction may be stored; 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.

Material Stored.

Section No. 27. 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 in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section No. 28. 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.

Access to Fire Hydrants.

Section No. 29. 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.

Work to Be Cleared.

Section No. 30. 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 of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition; but this is in no way to be construed as placing upon the Contractor the usual duties of the Street Cleaning Department.

Assistance to Be Rendered to Owners of Buildings.

Section No. 31. 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.

Waste Material.

Section No. 32. 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 materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section No. 33. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section No. 34. 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.

Advertisements Forbidden.

Section No. 35. 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.

Barricades.

Section No. 36. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section No. 37. 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.

Section No. 38. 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 counter-signing 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 called for by said working or shop drawings shall be done 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.

Lines and Grades.

Section No. 39. 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. 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 shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section No. 40. 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.

Imperfect Work.

Section No. 41. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to Be Replaced.

Section No. 42. 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 at the Contractor's expense.

Condemned Materials to Be Removed.

Section No. 43. If any material 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 remove such materials as may be directed by the Engineer.

Competent Men.

Section No. 44. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

Manner of Prosecution and Maintenance of Traffic.

Access to Buildings, etc.

Section No. 45. 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 shall be built and maintained, at the Contractor's expense, 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.

Contiguous Contract Sections.

Section No. 46. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Conduct of Work.

Section No. 47. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section No. 48. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section No. 49. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section No. 50. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic 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.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases 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.

Close Observance of Above Requirements.

Section No. 51. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

By-Passing Gas Mains.

Section No. 52. Wherever the excavations are decked, all gas pipes whose service cannot temporarily be dispensed with shall be by-passed, temporary pipes to take their place being laid above the street or sidewalk surfaces. The cost of such by-passing will be paid for as provided in Article 12 of the contract, but no allowance will be made for the maintenance of such temporary pipes.

Temporary Pipes, etc.

Section No. 53. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section No. 54. In general, work will as provided herein be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

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Street Railroad Tracks, Mains and Other Surface or Sub-Surface Structures.

Notice to be Given.

Section No. 55. 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.

Section No. 56. In the rearrangement of sub-surface structures requiring removal and relaying or reconstruction due to interference with the railroad structure 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.

Reconstruction or Relaying, etc.

Section No. 57. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or sub-surface, structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section No. 58. All work of reconstruction or alteration 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.

Maintenance, Support, etc.

Section No. 59. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and sub-surface structures encountered during the prosecution of his work. All surface and sub-surface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or sub-surface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or sub-surface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the Schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section No. 60. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 79, 82 to 84, 86, 90 to 96, and 100 to 104. These prices are per lineal foot of pipe laid, including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101 and Items 107 and 108, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Item 2-A (which prices shall include all the matters referred to in Section No. 91), and for restoration of street surface, Item 30 A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section No. 61. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-a), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Maintenance of Surface Railroads.

Section No. 62. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface railroads along the line of or crossing the line of the work.

Surface Railroads.

Section No. 63. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads, including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may

be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Facilities to be Given to Make Extensions.

Section No. 64. In the event of the owners or the City desiring to make any alteration or extension to their structures, 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.

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Excavation.

Width of Excavation.

Section No. 65. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. 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.

Depth of Trenches.

Section No. 66. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section No. 67. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section No. 68. 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 must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section No. 69. 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 shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section No. 70. Where underpinning of a building is necessary and the work is done as provided in Section No. 69, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section No. 71. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section No. 72. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of 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.

Vaults of Abutting Property.

Section No. 73. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the Railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section No. 86, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section No. 74. Wherever vaults are broken through or otherwise disturbed, the Contractor shall at his own cost and expense 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.

Rock.

Section No. 75. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section No. 76. 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.

Blasting.

Section No. 77. 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. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section No. 78. 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 it shall be 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.

Near Pipes and Mains.

Section No. 79. 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.

General Precautions in Blasting.

Section No. 80. 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.

Close Drilling.

Section No. 81. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides, and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section No. 82. 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 cloth, 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.

Carts to be Tight.

Section No. 83. 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. 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.

Removed Expeditiously.

Section No. 84. 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.

When Excavated Material May Be Taken by City.

Section No. 85. If at any time during the course of construction the City shall desire for city purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section No. 86. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section No. 87. The net outside width of the Railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the Railroad or on account of vault space or of spaces occupied by pipes and other sub-surface structures.

No Allowance Outside of Ordered Net Lines.

Section No. 88. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the Schedule.

Change of Street Grade.

Section No. 89. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section No. 90. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section No. 91. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and sub-surface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6.**Backfilling.****Quality of Material.**

Section No. 92. The trenches at the sides of and over the top of the sub-way 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 compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Sub-surface Structures—Frozen Material Not Permitted.

Section No. 93. 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.

Section No. 94. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section No. 95. The cost of back-filling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, and 3.

7.**Piling and Timbering.****Character of Piles.**

Section No. 96. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good, sound 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.

Piles Driven in Required Location.

Section No. 97. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section No. 98. The price herein stipulated to be paid, per lineal foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section No. 99. If in the judgment of the Engineer special conditions so require, piles of re-inforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section No. 100. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section No. 101. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section No. 102. 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.

Payment For.

Section No. 103. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his directions. Payment for foundation timber will be as provided in Schedule Item 13.

8.**Cement.****Portland Cement.**

Section No. 104. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section No. 105. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section No. 106. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section No. 107. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section No. 108. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section No. 109. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO₂) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section No. 110. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieve being respectively 0.0045 and 0.0024 inch in diameter.

Time of Setting.

Section No. 111. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section No. 112. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section No. 113. 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) lbs.; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) lbs.; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) lbs. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, 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 two hundred (200) lbs.; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) lbs. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) lbs. over the strength at seven (7) days.

Long-time Tests.

Section No. 114. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit the further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section No. 115. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section No. 116. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section No. 117. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

9.**Mortar.****Cement and Sand—Mixing.**

Section No. 118. 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 shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. 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.

Section No. 119. 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; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

10.

*Masonry.**Laid in Portland Cement.*

Section No. 120. 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.

Section No. 121. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section No. 122. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall 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.

Protected in Freezing Weather.

Section No. 123. 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.

Hot Weather.

Section No. 124. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section No. 125. 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.

Section No. 126. 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.

Section No. 127. 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.

Defective Masonry.

Section No. 128. 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.

Section No. 129. All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

11.

*Concrete.**How Composed.*

Section No. 130. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section No. 131. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section No. 132. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section No. 133. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths ($\frac{3}{8}$) inch in diameter, and no pieces that will not pass through a hole one and one-half ($1\frac{1}{2}$) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths ($\frac{3}{8}$) and three-fourths ($\frac{3}{4}$) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section No. 134. In concrete where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may imbed in the same 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 ($\frac{3}{4}$) 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 shall 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.

Section No. 135. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section No. 136. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Section No. 137. Protective concrete outside of waterproofing lines on side and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section No. 138. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section No. 139. 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.

Section No. 140. 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 spading, special tamping bars or tools being 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.

Section No. 141. Concrete 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.

Section No. 142. 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 Cleaned.

Section No. 143. 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.

Section No. 144. Whenever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete can be laid, the surface shall be left rough to form a bond with the new work; and if deemed neces-

sary by the Engineer, the joints shall be reinforced with steel bars or dowels, to be furnished by the Contractor.

Joints Cleaned.

Section No. 145. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section No. 146. 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 in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section No. 147. No forms made of wood, and covered with iron, will be permitted.

Section No. 148. The forms if made of wood, shall be made of boards with tight joints, tongued and grooved if required by the Engineer.

Precautions in Placing.

Section No. 149. 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.

Section No. 150. 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 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.

Reinforcement Steel.

Section No. 151. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not To Be Painted.

Section No. 152. The exposed faces of the concrete, excepting within station limits, shall 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.

Impervious to Water.

Section No. 153. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section No. 154. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section No. 155. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.
(For Concrete in Sewers, see Sewers.)

12.

*Brick Masonry.**Quality.*

Section No. 156. Bricks for 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.

Section No. 157. Hollow terra cotta blocks or bricks may be required 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.

Section No. 158. 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 stations) not exceeding one-quarter ($\frac{1}{4}$) of an inch in the beds, and three-eighths ($\frac{3}{8}$) 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.

Section No. 159. 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.

Section No. 160. 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.

Racked or Toothed.

Section No. 161. All unfinished work shall 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.

Section No. 162. 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.

Measurements and Payments.

Section No. 163. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

13

*Stone Masonry.**Rubble Stone Masonry, Where Used.*

Section No. 164. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section No. 165. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section No. 166. Rubble stone masonry shall be measured in place in the work

and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section No. 167. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article XII of the contract.

14

Waterproofing.

General Limits of Waterproofing.

Section No. 168. In general, waterproofing of the structure will be limited to the roof and sidewalks at the stations and over the roof between stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section No. 169. The protecting masonry shall be hollow terra cotta blocks, common bricks or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section No. 170. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces To Be Made Smooth.

Section No. 171. 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 treated 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."

Section No. 172. 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."

Section No. 173. The number of plies of waterproofing on the sides at stations and over the roof between stations 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.

Section No. 174. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or, if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply 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 to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section No. 175. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section No. 176. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section No. 177. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section No. 178. 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.

Section No. 179. 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, at the sole expense of the Contractor.

Quality of Pitch.

Section No. 180. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-Tar Pitch.

Section No. 181. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25%) per centum and not more than thirty-two (32%) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section No. 182. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain 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.

Section No. 183. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum 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.

Section No. 184. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, 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 then 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 blow holes.

Fabric for Waterproofing to be Carefully Laid.

Section No. 185. 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 by overlapping, 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.

Section No. 186. 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.

Skilled Labor To Be Employed.

Section No. 187. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section No. 188. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

15.

Steel and Iron.

Open Hearth Process.

Section No. 189. Steel shall be made in an open hearth furnace.

Chemical and Physical Properties.

Section No. 190. 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. ".....	.05%	.04%	.05%
Mn. ".....	.60%	.60%	.80%
Si. ".....	.10%	.10%	.35%
Ult. Str.....	60000±4000	50000±4000	65000±(Min.)
Yield Point.....	55% Ult. 1500000	55% Ult. 1500000	35000±(Min.)
Elongation.....			20% in 2"
Fracture.....	Ult. Str. Silky.	Ult. Str. Silky.	Fine granular
Cold Bend.....	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section No. 191. 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.

Section No. 192. 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.

Section No. 193. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section No. 194. 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 (1/2) 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.

Section No. 195. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section No. 196. Rivet rods shall be tested as rolled.

Steel Castings.

Section No. 197. For steel castings the test piece shall be turned to a uniform minimum section of one-half (1/2) inch diameter, for a length of at least two and one-half (2 1/2) inches. Specimens for bending shall be one (1) inch by one-half (1/2) inch in section.

Ductility Elongation.

Section No. 198. In determining the ductility, 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.

Section No. 199. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section No. 200. 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.

Section No. 201. 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.

Section No. 202. 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.

Section No. 203. A variation in weight of any piece of steel of two and one-half per centum (2 1/2 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.

Section No. 204. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

Wrought Iron.

Double Rolled.

Section No. 205. 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.

Section No. 206. 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) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five degrees (135°) 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.

Section No. 207. 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 (1 1/4) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended 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) lbs. with a deflection of at least one-tenth (1-10) of an inch before rupture.

Workmanship.

Quality.

Section No. 208. 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, Deformed Sections.

Section No. 209. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section No. 210. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section No. 211. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section No. 212. 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.

Section No. 213. 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.

Section No. 214. 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.

Section No. 215. 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.

Section No. 216. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section No. 217. 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.

Section No. 218. 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.

Section No. 219. 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.

Section No. 220. 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.

Section No. 221. 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.

Section No. 222. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section No. 223. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section No. 224. 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.

Pins and Rollers.

Section No. 225. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1-32) of an inch.

Bed Plates Planed.

Section No. 226. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the center line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section No. 227. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section No. 228. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section No. 229. 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.

Section No. 230. 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.

Section No. 231. 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.

Errors in Plans.

Section No. 232. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section No. 233. 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.

Section No. 234. 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.

Section No. 235. 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.

Section No. 236. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section No. 237. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast-iron.

Section No. 238. The prices to be paid for steel and cast-iron are as herein provided in Schedule Items 19 and 20. These prices include the cost of the material delivered and erected in the work. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section No. 239. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

Wire Mesh.**Wire Mesh.**

Section No. 240. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment for.

Section No. 241. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

16.**Painting.**

Section No. 242. 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.

Section No. 243. All iron shall be scraped free from scale, and receive one coat of red lead 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.

Section No. 244. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" (Pb₃O₄). The color shall be a clear, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section No. 245. 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 Fahr. 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 Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section No. 246. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section No. 247. Red lead paint shall be mixed in the proportion of 500 lbs. of red lead to 5 1/2 gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section No. 248. 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.

Section No. 249. 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.

Section No. 250. The second coat of paint shall be a carbon paint 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.

Metal to be Cleaned After Erection.

Section No. 251. 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.

Section No. 252. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section No. 253. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a 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. The several field coats shall be sufficiently tinted to be distinctive.

Surface in Contact.

Section No. 254. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section No. 255. 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.

Section No. 256. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section No. 257. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section No. 258. Payment for painting is included in the prices for steel and iron.

17.**Ducts and Conduits.****Vitrified Ducts—Quality and Size.**

Section No. 259. 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 liable 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 diameter to be such as to pass a mandrel three and one-half (3 1/2) inches in diameter; 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 injure 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 (3/4) of an inch.

Thickness of Ducts.

Section No. 260. The outside walls and webs of four-way ducts to be three-quarters (3/4) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9 1/4) 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.

Ends Combed.

Section No. 261. 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 (1/4) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section No. 262. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section No. 263. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section No. 264. The ducts shall be laid in beds of cement mortar about one-quarter (1/4) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached 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. The muslin shall be not less than 56 x 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) 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 re-

quired, 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.

Mandrels.

Section No. 265. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section No. 266. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section No. 267. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To Be Rodded.

Section No. 268. After the ducts are laid, and sufficient time is given to allow the mortar in beds to 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 sufficient to pass a three and one-quarter ($3\frac{1}{4}$) inch mandrel, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section No. 269. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section No. 270. 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 at Stations.

Section No. 271. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section No. 272. At manholes the ducts will be laid to conform to the special conditions.

Section No. 273. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section No. 274. The iron pipe or fibre conduits required by Section No. 273 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section No. 275. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvduct or equal) standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section No. 276. All conduits shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Water-Tight.

Section No. 277. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a water-tight job.

Fibre Conduits, Quality, Laying, etc.

Section No. 278. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter ($\frac{1}{4}$) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made water-tight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter ($1\frac{3}{4}$) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section No. 279. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section No. 280. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section No. 281. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section No. 282. Measurements for the above iron pipe or fibre conduits shall be per lineal foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section No. 283. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a water-tight joint. Covers shall be of cast iron and water-tight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

18.

Drains and Pumps.

Railroad to be Drained.

Section No. 284. Every part of the Railroad, the stations 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.

Section No. 285. 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.

Section No. 286. 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.

Connections and Cross Drains.

Section No. 287. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where nec-

essary, 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. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron as directed.

Broken Stone for Drainage.

Section No. 288. Broken stone shall be placed for the purposes of drainage, as indicated on the plans or as required by the Engineer.

Sumps.

Section No. 289. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the sub-drains or the floor of the Railroad. Such sumps must be water-tight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section No. 290. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate automatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section No. 291. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, Etc.

Section No. 292. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, Etc.

Section No. 293. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, hand-holes, etc., and all material necessary for joining the same. Where back-pressure valves or gate-valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section No. 294. For broken stone for drainage, furnished and placed, Section No. 288, payment will be made as provided in Schedule Item 14.

Section No. 295. For pumps, Section No. 290, the Contractor will be paid as provided in Article XII of the contract, not including, however, the pipe connections with sumps and sewers, which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section No. 296. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in position as shown on the plans and will be paid for as provided in Schedule Item 34.

19.

Sewers.

In Accordance with Plans and Specifications.

Section No. 297. 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 called for by these specifications and shown on the drawings.

Change of Location.

Section No. 298. If, in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown sub-surface 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.

Section No. 299. The general clauses in this contract relating to excavation in open trench, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and sub-surface 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 or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims For Damages.

Section No. 300. Should postponement or delay be occasioned by the precedence of paying 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 his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section No. 301. 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 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 six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation. Payments for excavation will be based on the requirements as above.

Limit of Trench Opening.

Section No. 302. 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 sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section No. 303. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches For Manholes and Receiving Basins.

Section No. 304. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the 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 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, and shall have vertical sides to the surface.

Foundations.

Section No. 305. 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 or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section No. 306. 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 no construction work shall be done in his absence.

Trenches to be Kept Free From Water.

Section No. 307. 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.

Gutter and Passageway to be Kept Open.

Section No. 308. At all times, 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, Side-walk and Roadway to be Kept Clear.

Section No. 309. 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.

Section No. 310. 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.

Section No. 311. 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.

Brick.

Section No. 312. 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 bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section No. 313. The bricks shall be properly wet 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.

Racked Back or Toothed.

Section No. 314. 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.

Section No. 315. 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 for 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.

Section No. 316. 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 or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of 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.

Section No. 317. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but 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.

Section No. 318. Spurs 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.

Section No. 319. 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 unless otherwise ordered by the Engineer. 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 water-mains.

Under Station Platforms.

Section No. 320. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station 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.

Section No. 321. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section No. 322. 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.

Section No. 323. 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.

Invert to be Protected.

Section No. 324. 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.

Section No. 325. 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.

Defective Work.

Section No. 326. 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.

Section No. 327. 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.

Section No. 328. 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.

Section No. 329. 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 of the Borough of Manhattan, at any time previous to its being used.

Thickness.

Section No. 330. 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 $\frac{5}{8}$ of an inch thick;
- 8-inch pipes shall be not less than $\frac{3}{4}$ of an inch thick;
- 10-inch pipes shall be not less than $\frac{7}{8}$ of an inch thick;
- 12-inch pipes shall be not less than one inch thick;
- 15-inch pipes shall be not less than $1\frac{1}{4}$ inches thick;
- 18-inch pipes shall be not less than $1\frac{1}{2}$ inches thick;
- 24-inch pipes shall be not less than two inches thick;
- 30-inch pipes shall be not less than $2\frac{1}{2}$ inches thick.

Lengths.

Section No. 331. No pipe shall be less than two 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 and Split Pipes.

Section No. 332. 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 three feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section No. 333. 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.

Section No. 334. 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.

Section No. 335. 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 earthen-ware covers set in mortar.

Risers.

Section No. 336. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section No. 337. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section No. 338. 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 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.

Section No. 339. 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.

Section No. 340. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section No. 341. 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 removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section No. 342. Sewers of iron pipe, of 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.

Section No. 343. Wherever such pipes are laid under station platforms 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.

Section No. 344. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms 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.

Section No. 345. 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.

Section No. 346. 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.

Section No. 347. 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.

Section No. 348. 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.

Section No. 349. The masonry of manholes 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 selected bluestone slabs 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.

Section No. 350. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section No. 351. 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.

Vitrified Bricks or Granite Blocks.

Section No. 352. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section No. 353. 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.

Section No. 354. 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.

Section No. 355. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section No. 356. A cast-iron manhole head and cover of the quality specified for cast-iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, 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.

Section No. 357. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section No. 358. 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.

Section No. 359. When the pavement of the street is asphalt or wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section No. 360. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section No. 361. 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.

Section No. 362. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section No. 363. 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.

Section No. 364. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend 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.

Section No. 365. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well 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 and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section No. 366. 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.

Section No. 367. 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.

Section No. 368. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section No. 369. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section No. 370. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Section No. 371. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section No. 372. 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 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.

Section No. 373. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section No. 374. 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.

Mortar.

Section No. 375. 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.

Section No. 376. 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.

Section No. 377. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided, under the heading of "Street Surface Restored."

Permits for Connections.

Section No. 378. 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. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section No. 379. 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, all at his own expense.

Payment for Sewers.

Section No. 380. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 38, 45, 47, 54, 55 and 57, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections Nos. 297 to 380 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavation.

Section No. 381. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Item No. 2-A (which prices shall include all the matters referred to in Section No. 91), on the basis of size of trench stipulated in Sections Nos. 301 and 304. Payment for the street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section No. 382. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section No. 383. Where automatic flush tanks are built as provided in Section No. 373 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section No. 384. Where waterproofing is required and placed in accordance with Section No. 374 of the specifications, it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Cast-Iron Pipe Sewers, etc.

Section No. 385. All cast-iron pipe sewers wherever built, and the parts within the limits of the Railroad, when indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section No. 386. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Section No. 385 will be included in the prices for the several classes of work and material entering into such construction.

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Requirements for Pipes.

Generally.

Section No. 387. 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.

Section No. 388. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section No. 389. 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.

Section No. 390. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots to conform to the drawings, and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends exceeds one-eighth (1/8) of an inch, or whose dimensions differ by more than one-eighth (1/8) of an inch from those required.

Section No. 391. The pipes shall be designated by dimensions of the interior diameter.

Section No. 392. 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.

Section No. 393. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section No. 394. All straight pipe shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section No. 395. 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:

60-inch pipes,	12,835 pounds each.
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.
8-inch pipes,	580 pounds each.
6-inch pipes,	415 pounds each.

High Pressure Fire System.

Section No. 396. For high-pressure fire system standard spigot and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch.....	355	420	550	935
12-inch.....	615	745	1,000	1,765
16-inch.....	1,005	1,215	1,635	2,905
20-inch.....	1,475	1,795	2,425	4,320
24-inch.....	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section No. 397. 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.

Section No. 398. 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.

Underweight.

Section No. 399. 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.

Straight Pipe Cast Vertically.

Section No. 400. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section No. 401. All the castings shall be made in such moulding-sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section No. 402. 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 (1/8) 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.

Section No. 403. The metal of which the castings are to be cast (which shall 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.

Section No. 404. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings To Be Clean.

Section No. 405. 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 shall 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.

Section No. 406. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section No. 407. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section No. 408. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300°) degrees Fahrenheit, and shall 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 shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section No. 409. Every casting shall attain a temperature of three hundred (300°) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section No. 410. 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 shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section No. 411. 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 shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section No. 412. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

Section No. 413. 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.

Timber for Blocking.

Section No. 414. 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 1/2 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 3/4 inches thick on one end and 1/2 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 1/2 inch thick on the other.

Joints.

Section No. 415. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (1/4) to one-eighth (1/8) 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 jute 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.

Section No. 416. 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.

Section No. 417. 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.

Connections Interfered With.

Section No. 418. 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, Etc.

Section No. 419. Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section No. 420. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

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Street Surface Restored.

Pavement to be Restored.

Section No. 421. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, 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; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section No. 422. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed 3/4 of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than 3/4 inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other sub-surface structures along or off the line of the Railroad.

Other Sidewalks May be Laid.

Section No. 423. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, 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 his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his 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 restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section No. 424. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section No. 425. Measurements for park surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section No. 426. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

22

Vault Lights, Gratings and Hand-rails.

Vault Lights.

Section No. 427. The roofs of the stations, where under sidewalks, shall, to as great an extent as possible, consist of vault light construction. 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 or panel in every ten (10) 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. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section No. 428. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section No. 429. Steel gratings shall be provided and placed over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section No. 430. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-rails.

Section No. 431. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.

SECURITY TO BE FURNISHED BY CONTRACTOR.

Contractor's Bond.

Article XXVII. 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 the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of fifty thousand (\$50,000) dollars. 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 ten 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 ten 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.

*Article XXVIII. 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 saving 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 thereafter may 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.

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, when and as collected, pay the same to the Contractor. If the securities are in the form of coupon bonds the coupons as they respectively become due shall be delivered to the Contractor. If the deposit be made in cash, interest shall be paid to the Contractor at the average rate of interest received by the City on its bank balances during such period. Provided, however, that the Contractor shall not be entitled to interest, dividends or other profits or income on any securities the proceeds of which shall be used or applied as hereinafter provided.

Security For.

Article XXIX. 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.

Sale of Securities.

Article XXX. 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.

Retention of Security.

Article XXXI. 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.

On Completion of Works.

Article XXXII. 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.

Retained Percentages.

Article XXXIII. In addition and as further security there shall be deducted fifteen per centum (15%) of the amounts certified from time to time to be due to the

*Articles XXVIII to XXXII inclusive will form part of the contract only in case the Contractor elects to deposit cash or securities in lieu of a bond, or to deposit corporate stock of The City of New York in lieu of retained percentages.

Contractor until the amount so deducted and retained shall equal the sum of One Hundred and Fifty Thousand Dollars (\$150,000). Thereafter there shall be so deducted and retained for such purpose ten per centum (10%) of amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so to be retained upon depositing with the Comptroller corporate stock of The City of New York of a market value equal to the amount so withdrawn, in which event the provisions of this chapter in respect of securities shall also apply to such corporate stock.

V.

PAYMENTS TO CONTRACTOR.

Partial Payments.

Article XXXV. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand (\$10,000) dollars. The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty (\$40) dollars per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article XXXVI. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article XXXVII. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for eighty-five or ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished as provided in Article XXXIII, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten or fifteen per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article XXXVIII. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article XXXIX. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article XXX, in the case of partial payment, or Article XXXI, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article XL. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing 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 as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article XLI. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article XLII. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, 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 Commission, the City or of any person relating to or affecting the work, except only 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.

Article XLIII. 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.

Lien Law.

Article XLIV. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.

CONTRACTOR'S LIABILITY FOR INJURIES TO PERSONS OR PROPERTY.

Contractor Approves Plans as Involving no Damage.

Article XLV. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, 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 will 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. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part or on the part of his agents, servants or employees, and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage.

Traffic to be Maintained.

Article XLVI. The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, parks, waters or other public places 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.

Article XLVII. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor May Be Retained to Meet Claims.

Article XLVIII. 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 as aforesaid, 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. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or other security or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article XLIX. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City 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.

Damage to Works During Construction.

Article L. All risk of loss or damage to the Works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, 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.

VII.

CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE.

City's Assurances to Contractor of Right to Construct.

Article LI. 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.

Claims for Infringement of Patents.

Article LII. The Contractor shall hold itself 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.

VIII.

TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article LIV. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the delivery of this contract. The entire work covered by this contract shall be completed in all respects within forty (40) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article LV. In the event of delay in completion of the Works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—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 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 the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. 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 by resolution of the Commission 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.

Article LVI. 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 or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

In Case of Variation of Quantities.

Article LVII. The time stipulated within which to complete Works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article LVIII. 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.

Extensions Not Cumulative.

Article LX. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article LXI. 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.

IX.

REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

In Case of Default.

Article LXII. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

May Take Charge of Work—Or Proceed Upon Bond—Or May Bring Suit.

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the Works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

(2) The City may also proceed as to the Commission shall seem proper upon the Bond or other security in its possession. And

(3) 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.

X.

MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article LXIII. 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 by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article LXIV. 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.

Contractor Not to Assign, Sublet, Etc.

Article LXV. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article LXVI. 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.

Article LXVII. The Contractor agrees to comply with the provisions of the Labor Law, including Section three thereof as re-enacted by Chapter 36 of the Laws of 1909. 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 the City, 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 section. In obedience to the requirements of Section Fourteen of the Labor Law it is further provided that if the provisions of the said Section Fourteen are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article LXVIII. 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 or 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.

Article LXIX. 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 resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; 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 OF THE FIRST DISTRICT,

By.....Chairman.

[SEAL.]

Attest:Secretary.

On the day of 1912, 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 1912, 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 1912, 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 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.

FORM OF CONTRACTOR'S BOND—CONSTRUCTION OF A PART OF PROPOSED RAPID TRANSIT RAILROAD ROUTE NO. 5, SECTION NO. 2-A.

Form of Contractor's Bond.

Route No. 5, Section No. 2-A.

Know all Men by these Presents, That of hereinafter called the Contractor and hereinafter called the Sureties are held and firmly bound unto The City of New York, hereinafter called the City in the sum of fifty thousand dollars (\$50,000) 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 sum of fifty thousand dollars (\$50,000) and each of the said Sureties to be so held and bound only for a portion of said 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 set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this day of 1912.

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 known as Section 2-A of Route 5 in Broadway, and extending from Walker street to Howard street, in the Borough of Manhattan, 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 defense upon this Bond; that the Sureties shall not set up or have any defense 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 defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.

FORM OF CONTRACTOR'S PROPOSAL FOR CONSTRUCTION OF A PART OF A RAPID TRANSIT RAILROAD, PORTION OF LEXINGTON AVENUE ROUTE, ROUTE NO. 5, SECTION NO. 2-A.

CONTRACTOR'S PROPOSAL

For the Construction of a Portion of a Rapid Transit Railroad.

Route No. 5 Section No. 2-A.

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

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 in the form annexed hereto with The City of New York for the construction of Section No. 2A of Route No. 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedules of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedules are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices for Portion of Lexington Avenue Route.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
1	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., cubic yd. ....	.....	20,343	.....
2	For earth excavation below mean high water (except excavations for sewers and pipes) including the disposal of it, etc., per cubic yd. ....	.....	32,079	.....
2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yd. ....	.....	612	.....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yd. ....	.....	100	.....
4	For underpinning buildings, including all incidental work and material, per lineal front ft. of building underpinned as follows: (a) For buildings less than seven stories in height per front ft. (b) For buildings from seven to twelve stories in height, per front ft. (c) For buildings over twelve stories in height, per front ft. ....	.....	723 94 0	...............
6	For concrete masonry in place, per cubic yd. ....	.....	11,814	.....
7	For protective concrete masonry in place outside of waterproofing, per cubic yd. ....	.....	1,916	.....
8	For rubble stone masonry in place, per cubic yd. ....	.....	573	.....
9	For brick masonry, in place, per cubic yd. ....	.....	50	.....
10	For hollow terra cotta brick masonry, in place, per cubic yd. ....	.....	45	.....
11	For grout of Portland cement, per barrel of Portland cement used. ....	.....	500	.....
12	For timber piles, in place and prepared, per lineal foot ....	.....	1,000	.....
13	For timber foundations placed and fastened, per thousand feet B. M. ....	.....	2 M	.....

*The bidder's name must be inserted here. 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 it be a foreign corporation, proof must also be submitted of its authority to transact business in the State of New York. In case the bidder has already filed such papers with the Commission in connection with another bid he may so state and omit such papers in this instance. 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).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder.
14	For broken stone or gravel in place, other than used in concrete, per cubic yard.....	.....	100 00	.....
15	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yd.....	.....	13,448	.....
	(b) For 2-ply, per square yd.....	.....	100	.....
	(c) For 3-ply, per square yd.....	.....	2,165	.....
	(d) For 4-ply, per square yd.....	.....	100	.....
	(e) For 5-ply, per square yd.....	.....	100	.....
	(f) For 6-ply, per square yd.....	.....	100	.....
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.....	.....	1,969	.....
17	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal ft. ....	.....	50	.....
	(b) For 10-inch vitrified pipe, per lineal ft. ....	.....	50	.....
	(c) For 8-inch vitrified pipe, per lineal ft. ....	.....	530	.....
	(d) For 6-inch vitrified pipe, per lineal ft. ....	.....	50	.....
	(e) For 4-inch vitrified pipe, per lineal ft. ....	.....	50	.....
	(f) For 8-inch cast-iron pipe, per lineal ft. ....	.....	0	.....
	(g) For 6-inch cast-iron pipe, per lineal ft. ....	.....	50	.....
	(h) For 4-inch cast-iron pipe, per lineal ft. ....	.....	180	.....
	(i) For 10-inch cast-iron pipe, per lineal foot .....	.....	0	.....
18	For tunnel ducts, in place, as required by Section No. 269 of the specifications, per duct ft. ....	.....	39,600	.....
19	For riveted steel, painted and erected, per ton of two thousand pounds.....	.....	422	.....
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds .....	.....	814	.....
21	For steel rods and bars built in concrete, per ton of two thousand pounds.....	.....	14	.....
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds.....	.....	10	.....
26	For wire mesh, in place, per pound.....	.....	100	.....
27	For one and one-half-inch (1½-in.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal ft. ....	.....	100	.....
28	For steel gratings for ventilation, in place, including frames, etc., per square ft....	.....	2,025	.....
29	For vault lights, in place, per square ft....	.....	3,520	.....
30	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yd.....	.....	1,193	.....
	(b) For temporary repavement and maintenance of roadways, per square yd. ....	.....	3,846	.....
32	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-in.) wrought-iron, per lineal ft.....	.....	1,000	.....
	(b) For one and one-half-inch (1½-in.) wrought-iron, per lineal ft. ....	.....	20	.....
	(c) For two-inch (2-in.) wrought-iron, per lineal ft.....	.....	20	.....
	(d) For two-inch (2-in.) fibre, per lineal ft. ....	.....	0	.....
33	For cast-iron outlet boxes in place, in stations, each .....	.....	60	.....
34	For cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, as follows:			
	(a) For six-inch (6-in.) per lineal foot....	.....	382	.....
	(b) For three-inch (3-in.) per lineal foot..	.....	600	.....
	SEWERS.			
	Vitrified and Cast-iron Pipe.			
38	For 15-inch vitrified pipe sewer, per lineal ft. ....	.....	710	.....
	Egg-Shaped Brick or Concrete Sewers.			
45	For 3 ft. 6 in. x 2 ft. 4 in., per lineal ft....	.....	260	.....
47	For 4-ft x 2 ft. 8 in., per lineal ft.....	.....	180	.....
	Circular Sewers—Brick or Concrete or Reinforced Concrete.			
54	For 4 feet 3 inches, per lineal foot.....	.....	80	.....
54	For 4 feet 9 inches, per lineal foot.....	.....	210	.....
57	For 5 feet 6 inches, per lineal foot.....	.....	48	.....
	SURFACE AND SUB-SURFACE STRUCTURES.			
75	For street surface railroads, including the support, re-construction, re-building, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.....	.....	1,358	.....
	(b) For horse railroads, per lineal foot of single track.....	.....	40	.....
	PIPES IN STREET.			
	For Work and Material as Called for by Section No. 60 of the Specifications.			
	Water and Gas Pipes.			
	Water Pipes.			
	For water pipes in place, as follows:			
79	For 6-inch water pipe, per lineal ft.....	.....	135	.....
82	For 12-inch water pipe, per lineal ft.....	.....	575	.....
83	For 16-inch water pipe, per lineal ft.....	.....	150	.....
84	For 20-inch water pipe, per lineal ft.....	.....	50	.....
86	For 30-inch water pipe, per lineal ft.....	.....	150	.....
	Gas Pipes.			
	For gas pipes in place, as follows:			
90	For 4-inch gas pipe, per lineal ft.....	.....	425	.....
91	For 6-inch gas pipe, per lineal ft.....	.....	450	.....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder.
92	For 8-inch gas pipe, per lineal ft.....	.....	575	.....
93	For 10-inch gas pipe, per lineal ft.....	.....	125	.....
94	For 12-inch gas pipe, per lineal ft.....	.....	125	.....
95	For 16-inch gas pipe, per lineal ft.....	.....	125	.....
96	For 20-inch gas pipe, per lineal ft.....	.....	125	.....
	New Cast-iron Hub and Spigot Water and Gas Pipe.			
100	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.....	.....	22	.....
101	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.....	.....	5	.....
	High Pressure Fire System Pipes, Standard Spigot and Grooves.			
	For high pressure fire system pipe in place, as follows:			
102	For 8-inch high pressure fire system water pipe, per lineal foot.....	.....	50	.....
103	For 12-inch high pressure fire system water pipe, per lineal foot.....	.....	125	.....
104	For 16-inch high pressure fire system water pipe, per lineal foot.....	.....	150	.....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System.			
107	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.....	.....	7	.....
108	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds.....	.....	2	.....
	DUCTS IN STREETS.			
	Electrical Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127	For electric ducts and conduits in place, as provided in Section No. 61 of the specifications, per duct foot.....	.....	14,800	.....

SCHEDULE OF UNIT PRICES FOR PORTION OF CANAL STREET ROUTE.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder.
1	For earth excavation, above mean high water, (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.....	.....	422	.....
2	For earth excavation, below mean high water (except excavations for sewers and pipes), including the disposal of it, etc., as follows:			
	(x) From mean high water to twenty feet below mean high water, per cubic yard..	.....	690	.....
	(y) Below a plane twenty feet below mean high water per cubic yard.....	.....	5,100	.....
2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard .....	.....	100	.....
4	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.....	.....	41	.....
	(a-x) For buildings less than seven stories in height in addition to the price for Item 4-a in the schedule of unit prices for the portion of the Lexington Avenue Route, per front foot .....	.....	723	.....
	(b-x) For buildings from seven to twelve stories in height in addition to the price for Item 4-b in the schedule of unit prices for the portion of the Lexington Avenue Route, per front foot.....	.....	94	.....
6	For concrete masonry in place, per cubic yard .....	.....	1,367	.....
7	For protective concrete masonry in place outside of waterproofing, per cubic yard. ....	.....	128	.....
8	For rubble stone masonry in place, per cubic yard .....	.....	45	.....
9	For brick masonry, in place, per cubic yard .....	.....	50	.....
10	For hollow terra cotta brick masonry in place, per cubic yard.....	.....	10	.....
12	For timber piles, in place, and prepared, per lineal foot.....	.....	1,000	.....
13	For timber foundations, placed and fastened, per thousand feet, B. M.....	.....	18 M	.....
15	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard.....	.....	1,355	.....
	(b) For 2-ply, per square yard.....	.....	0	.....
	(c) For 3-ply, per square yard.....	.....	0	.....
	(d) For 4-ply, per square yard.....	.....	0	.....
	(e) For 5-ply, per square yard.....	.....	0	.....
	(f) For 6-ply, per square yard.....	.....	50	.....
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.....	.....	242	.....
17	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot .....	.....	0	.....
	(b) For 10-inch vitrified pipe, per lineal foot .....	.....	0	.....
	(c) For 8-inch vitrified pipe, per lineal foot .....	.....	140	.....
	(d) For 6-inch vitrified pipe, per lineal foot .....	.....	0	.....
	(e) For 4-inch vitrified pipe, per lineal foot .....	.....	0	.....
	(f) For 8-inch cast-iron pipe, per lineal foot .....	.....	0	.....
	(g) For 6-inch cast-iron pipe, per lineal foot .....	.....	0	.....
	(h) For 4-inch cast-iron pipe, per lineal foot .....	.....	0	.....
	(i) For 10-inch cast-iron pipe, per lineal foot .....	.....	0	.....
18	For tunnel ducts, in place, as required by Section No. 269 of the specifications, per duct foot.....	.....	5,065	.....

Item.	Classification.	Unit Price.	Estimated Ap- proximate Quantities.	This column not to be used by Bidder. Amount.
19	For riveted steel, painted and erected, per ton of two thousand pounds.....	.....	267	.....
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.....	.....	182	.....
21	For steel rods and bars built in concrete, per ton of two thousand pounds.....	.....	2	.....
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	.....	1	.....
30	For street surface restored: (a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard.....	.....	0	.....
	(b) For temporary repavement and maintenance of roadways, per square yard..	.....	126	.....
34	For cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, as follows: (a) For six-inch (6-in.) per lineal foot....	.....	50	.....
	(b) For three-inch (3-in.) per lineal foot..	.....	32	.....
SEWERS.				
45	Egg-Shaped Brick or Concrete Sewers. ... For 3 feet 6 inches by 2 feet 4 inches, per lineal foot.....	.....	10	.....
Circular Sewers—Brick or Concrete or Reinforced Concrete.				
57	For 5 feet 6 inches, per lineal foot.....	.....	12	.....
SURFACE AND SUB-SURFACE STRUCTURES.				
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows: (a) For electric railroads, per lineal foot of single track.....	.....	42	.....
	(b) For horse railroads, per lineal foot of single track.....	.....	0	.....
PIPES IN STREETS.				
For Work and Material as Called for by Section No. 60 of the Specifications.				
Water and Gas Pipes.				
Water Pipes.				
For water pipes in place, as follows				
79	For 6-inch water pipe, per lineal foot.....	.....	15	.....
82	For 12-inch water pipe, per lineal foot.....	.....	25	.....
84	For 20-inch water pipe, per lineal foot.....	.....	15	.....
Gas Pipes.				
For gas pipes in place, as follows:				
90	For 4-inch gas pipe, per lineal foot.....	.....	25	.....
92	For 8-inch gas pipe, per lineal foot.....	.....	25	.....
93	For 10-inch gas pipe, per lineal foot.....	.....	25	.....
94	For 12-inch gas pipe, per lineal foot.....	.....	25	.....
95	For 16-inch gas pipe, per lineal foot.....	.....	25	.....
96	For 20-inch gas pipe, per lineal foot.....	.....	25	.....
New Cast-iron Hub and Spigot Water and Gas Pipe.				
100	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.....	.....	2	.....
101	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.....	.....	1	.....
High Pressure Fire System Pipes, Standard Spigot and Grooves.				
For high pressure fire system pipe in place, as follows:				
103	For 12-inch high pressure fire system water pipe, per lineal foot.....	.....	25	.....
New Cast-iron Spigot and Groove Pipe for High Pressure Fire System.				
107	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.....	.....	2	.....
108	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds.....	.....	1	.....
DUCTS IN STREETS.				
Electric Ducts and Conduits in Streets.				
(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).				
127	For electric ducts and conduits in place, as provided in Section No. 61 of the specifications, per duct foot.....	.....	200	.....

(2) 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 sum of thirty-five thousand dollars if the contract as awarded embraces only the portion of the Lexington Avenue Route and fifty thousand dollars if the contract as awarded embraces also such portion of the Canal Street Route, in the form hereto annexed with the following named Sureties, viz.:

(3) 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.

(4) 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 the Contractor's Proposal is accepted and that the proposed contract is consented to 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 procure the above described bond to be duly executed and delivered or make the said deposit in cash or securities; 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

* The bidder may, under the Rapid Transit Act, deposit cash or approved securities, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.

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 procure the said bond to be duly executed and delivered or make the said deposit in cash or securities, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) 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.

(6) There are no persons interested with the undersigned in this Proposal, except:

(7) 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 _____ 1912

Affidavit of Verification.

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

sworn, says: I am: _____ being duly

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.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 20, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 1, 1912, the Public Service Commission for the First District transmitted to the Board of Estimate and Apportionment for its consent to the awarding to the O'Rourke Engineering Construction Company of the contract for the construction of Section 2-a, Route No. 5, being that portion of the Lexington Avenue route extending along Broadway in the vicinity of Canal street, together with the underlying portion of the Canal street line, Manhattan.

In the communication the Public Service Commission requested that the limit to the amount of bonds to be made available to meet the requirements of said contract be set at \$912,351.60, and that the Comptroller be directed to issue bonds to that amount.

This section of the four-track Broadway line begins about 90 feet north of the centre line of Walker street and extends about 530 feet up Broadway to about 50 feet north of the centre line of Howard street. It includes, with the Canal street station, about 157 feet of the two-track Canal street line, which passes underneath. The low bidder on the work is the firm to which the award is to be made. The saving to the City on the section, which is approximately of the same length as the one previously bid on, by redesign and re-advertisement is about \$1,400,000.

I recommend that the Board of Estimate and Apportionment consent to the award of contract for Section 2-a, Route No. 5, including the underlying portion of Route 20, and that it authorize corporate stock to be issued to the amount of \$912,351.60 to meet the requirements of said contract.

Attached is a resolution which prescribes a limit to the amount of bonds available for the contract and authorizes the necessary corporate stock.

Respectfully, WM. A. PRENDERGAST, Comptroller.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 15, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—For the information of the Board of Estimate and Apportionment, I transmit herewith a copy of the stipulation entered into by the O'Rourke Engineering Construction Company by John F. O'Rourke, President, under date of May 22, 1912, relative to the proposed contract for the construction of Section 2-A of Route No. 5.

Very truly yours, TRAVIS H. WHITNEY, Secretary.

Whereas, The City of New York (hereinafter called the "City"), acting by the Public Service Commission for the First District (hereinafter called the "Commission"), by invitation to contractors dated February 27, 1912, invited proposals for the construction at municipal expense of Section No. 2-A of the Lexington Avenue Rapid Transit Railroad in the Borough of Manhattan, beginning at a point under Broadway about 90 feet north of the centre line of Walker street and extending thence northerly under Broadway for about 530 feet to a point about 50 feet north of the centre line of Howard street, including the underlying portion of the Canal Street Rapid Transit Railroad extending under Canal street and Broadway and under and across the portion of the Lexington Avenue Route above described a distance of about 157 feet; and

Whereas, Bidders on the said Section No. 2-A were required to submit separate proposals for the portion of the Lexington Avenue Route above described and for the underlying portion of the Canal Street Route above described; and

Whereas, O'Rourke Engineering Construction Company, a corporation organized and existing under the Laws of the State of New York (hereinafter called the "Bidder") was the lowest bidder on the said Section No. 2-A of the Lexington Avenue Route, including the underlying portion of the Canal Street Route; and

Whereas, On or about March 30, 1912, the Commission accepted the proposal of the bidder for the construction of the said Section No. 2-A of the Lexington Avenue Route, including the underlying portion of the Canal Street Route, and authorized the Chairman and the Secretary of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment of the City (hereinafter called the "Board") and upon compliance by the bidder with the requirements of the said invitation to contractors, and the Commission on or about April 1, 1912, transmitted the proposed contract between the City and the bidder to the Board for its consent, as required by law, but the Board has not yet consented to said contract; and

Whereas, Thereafter it was proposed to the Commission that a physical connection should be provided between the Lexington Avenue Route and the Canal Street Route so as to permit of the through operation of trains between these two railroads, and the construction of such physical connection would necessitate changes in the plans for the said Section No. 2-A of the Lexington Avenue Route, including the underlying portion of the Canal Street Route; and

Whereas, The contract contains provisions giving the Commission the right to order changes in the plans, all as more particularly set forth therein; and

Whereas, The bidder in order to induce the Board to consent to the said contract and in order to induce the Commission to execute and deliver the same, instead of readvertising, although maintaining and conceding the right of the Commission under the contract to make such changes in the plans as the Commission may deem necessary or proper for the purpose of constructing and providing said physical connection between the Lexington Avenue Route and the Canal Street Route, is, nevertheless, willing expressly to consent to such changes and to agree to construct the said physical connection, if so required by the Commission, or such portion thereof as the Commission may require it to construct, as a part of the underlying portion of the Canal Street Route described in said contract at the unit prices for the several

†Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡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 _____, 1912.

items, as specified in the schedule entitled "Schedule of Unit Prices for Portion of Canal Street Route" contained in the bidder's proposal.

Now, therefore, in consideration of the premises and in order to induce the Board to consent to said contract and in order to induce the Commission to execute and deliver the same, and not to readvertise, and in consideration of such consent by the Board and of such execution and delivery by the Commission, the bidder, while conceding and maintaining the right of the Commission under the contract to make the changes in the plans hereinafter mentioned, expressly consents to any and all changes in the plans, of whatsoever character and extent the same may be, which the Commission may in its discretion deem necessary or proper for the purpose of providing a physical connection in such manner as the Commission may in its discretion approve between the Lexington Avenue Route and the Canal Street Route; and the bidder expressly agrees with the City to construct and provide the said physical connection, if so required by the Commission, or such portion thereof as the Commission may require it to construct and provide, as a part of the underlying portion of the Canal Street Route described in said contract in all respects as if such physical connection or portion thereof had been originally required by said contract and shown upon the plans bid upon.

And whereas, The Commission may require further time and opportunity to consider and determine whether such physical connection should be provided and how it should be provided and other matters relative thereto, and the contract contains provisions giving the Commission the right temporarily to suspend the execution of the whole or any part of the work, all as more particularly set forth therein, the bidder further concedes and maintains the right of the Commission under the contract, and expressly consents and agrees with the City that the Commission has and shall have the right under the contract to suspend the execution of the whole or any part of the work in the contract or in this instrument contracted to be done for such period, of whatsoever length the same may be, which the Commission may take to consider and determine whether such physical connection should be provided or how the same should be provided and to decide all other matters relating thereto and to prepare, complete and issue the plans for the same, without compensation to the bidder for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension, in the manner provided in Articles 58 and 60 of the contract.

It is further expressly understood and agreed that any and all such changes and the consents and agreements in this instrument contained shall in no respect nor in any degree limit or effect the right of the Commission to order further changes during the progress of the work under and in accordance with the terms of the contract.

The foregoing consents and agreements shall bind the bidder and its successors and assigns.

Dated New York, May 22, 1912.

O'ROURKE ENGINEERING CONSTRUCTION COMPANY,

[CORPORATE SEAL.] By JOHN F. O'ROURKE, President.
Attest: FRANK L. MUELLER, Secretary.

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

On this 22d day of May, 1912, before me personally appeared John F. O'Rourke, to me known, who being by me duly sworn, did depose and say that he resided in New York City, New York; that he is President of the O'Rourke Engineering Construction Company, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order. And the said John F. O'Rourke further said that he is acquainted with Frank L. Mueller and knows him to be the Secretary of said Company; that the signature of the said Frank L. Mueller subscribed to the foregoing instrument is in the genuine handwriting of the said Frank L. Mueller and was thereto subscribed by him by like order of the Board of Directors and in the presence of him, the said John F. O'Rourke. HOWARD A. BUTLER, Notary Public No. 186, New York County.

Hon. John E. Eustis, Public Service Commissioner for the First District, addressed the Board on the subject.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and 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 April 1, 1912, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the O'Rourke Engineering Construction 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 Manhattan, of Section 2-A, Route 5, known as the Lexington Avenue Route, being a four-track underground railroad with station, beginning about ninety (90) feet north of the centre line of Walker street and extending thence northerly along Broadway for about five hundred and thirty (530) feet to a point about fifty (50) feet north of the centre line of Howard street, including the underlying portion of the Canal Street Rapid Transit Railroad, being Route 20, about one hundred and seventy-five (175) feet long, at a cost not to exceed nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60); 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 nine hundred and twelve thousand three hundred and fifty-one dollars and sixty cents (\$912,351.60), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board, dated April 1, 1912.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented a communication from the Secretary of the New York State Barge Canal Terminal Conference, requesting this Board, on behalf of the Executive Committee of said Conference, to take such steps as may be necessary to bring to the attention of the Board officially the provisions of chapter 746 of the Laws of 1911, which provide for the construction in The City of New York of barge canal traffic terminals, etc., and suggesting that communication be had with the Canal Board for full information as to all barge canal terminals that may be at any time under consideration or heretofore acted upon, showing the lands under water and uplands privately owned and those owned by the City which would be required, to the end that the interests of the City may be protected, the provisions of law complied with, and the construction of these canal terminals expedited.

Which was referred to the Committee consisting of the President of the Board of Aldermen, the Comptroller, the President of the Borough of Manhattan and the Chief Engineer of the Board, appointed to consider the subject of terminal improvements, etc., at the Port of New York.

On motion of the President of the Board of Aldermen, the above Committee were requested to confer with the State Canal Board as to the location of the terminals.

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

\$75 within the appropriation made to the City Chamberlain for the year 1912.

City of New York, Office of the Chamberlain, July 10, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—Request is hereby made for the transfer of the sum of \$75 from Account No. 67, 1912 (Special Contract Obligations), City Chamberlain, to Account No. 69, 1912 (Contingencies), City Chamberlain.

This transfer is requested for the purpose of providing for the payment for the services of a temporary employee, whom I intend to appoint for a month during the vacation period.

Through a misunderstanding in the segregation of the expenditures of this office for the year 1912, the sum of \$75, which was expended during the year 1911 for special expert services, was included in the account "Special Contract Obligations," instead of the account "Wages, Temporary Employees," where it properly belonged.

Inasmuch as a transfer to the account "Wages, Temporary Employees" is not permissible, I have, upon the suggestion of the Chief Auditor of your Department, made the request herein for a transfer to the account "Contingencies."

Very truly yours,

R. R. MOORE, Chamberlain.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1912, the City Chamberlain requested the transfer of \$75 from Account No. 67, Special Contract Obligations, to Account No. 69, Contingencies, for the year 1912. In connection therewith I report as follows:

The transfer is for the payment of a temporary Clerk, at the rate of \$3 per day, for about one month during the vacation period. The Chamberlain states that through a misunderstanding in the segregation of the expenditures for his office for 1912, the sum of \$75 which was expended during the year 1911 for special services, was included in the account for Special Contract Obligations instead of the account for Wages, Temporary Employees.

As it is not possible under the resolutions governing the Budget, to transfer from an account for Special Contract Obligations to an account for Wages, Temporary Employees, the item may be provided for by the proposed transfer.

The appropriation for No. 69 was \$875. On July 10 there was an unencumbered balance in the account of \$29.02. The appropriation for No. 67 was \$136, with a balance remaining on June 10 of \$80.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the office of the City Chamberlain for the year 1912, as follows:

67 Special Contract Obligations.....	FROM	\$75 00
	TO	
69 Contingencies		\$75 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$12,000 within the appropriation made to the Fire Department for the year 1912.

Fire Department of The City of New York, Office of the Commissioner, July 9, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Sir—Request is hereby made for the transfer of \$12,000 from Account No. 895, "Forage," to account No. 903, "Purchase of Horses."

The horse situation in the Fire Department at this time makes it imperative that more be procured, as the number now on hand are only sufficient for the apparatus in service, and spare horses must be procured to prevent companies from going out of service in case of accident.

This Department has lost quite a number of horses recently, and there are at this moment more horses in the hospital stables than is usually the case.

This communication is written you in the hope that you may urge unanimous consent to present the matter at the next meeting of the Board of Estimate and Apportionment. Respectfully, JOSEPH JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Fire Commissioner requested the transfer of \$12,000 within appropriations to the Fire Department for the year 1912. In connection therewith I report as follows:

It is proposed to transfer the amount from No. 895, Forage, Maintenance and Operation, to No. 903, Purchase of Horses, Maintenance and Operation. The appropriation for forage was \$217,845. The total liability is \$139,417.91, leaving an unencumbered balance of \$78,427.09. It is stated that this amount is \$12,000 in excess of the requirement for the rest of the year. The appropriation for the purchase of horses was \$31,834. The total liability of \$31,800 is for the purchase of 90 horses. It is stated that the purchase of 30 or 35 more horses will be necessary before the end of the year. The average cost per horse is \$350, which makes \$12,000 necessary. The working force of the Department is 1,500 horses. The average life of usefulness is 7 years, and previous to 1911 it was the custom to purchase about 200 horses each year to keep the supply normal. In that year the installation of motor apparatus was planned, and only 20 horses were purchased. For the same reasons only 90 horses have been purchased so far this year.

The Commissioner states that there has been a depreciation in the working force of horses because of the failure to renew, except in cases of urgent necessity. He further states that up to date the motor apparatus tests have not shown the degree of efficiency warranting the abandonment of horse service.

I recommend that the request be granted by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Fire Department for the year 1912, as follows:

Forage—	FROM	
895 Maintenance and Operation.....		\$12,000 00
	TO	
Purchase of Horses—		
903 Maintenance and Operation.....		\$12,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$1,450 within the appropriation made to the Department of Parks, Borough of Queens for the year 1912.

The City of New York, Department of Parks, Borough of Queens, June 21, 1912.

To the Honorable the Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—I would respectfully ask that the following transfers be made in my Budget for 1912, to strengthen the items mentioned, which have been necessarily depleted owing to the greater drafts upon them necessitated in the conduct of this Department, transfers being made from Line Item 1119, viz.:

No. 1—\$150 to Line Item 1112;
No. 2—\$400 to Line Item 1109;
No. 3—\$500 to Line Item 1117;
No. 4—\$400 to Line Item 1114;

--all being within the Budget appropriation.

These matters are urgent, for the reason that we are dangerously near the limit. Very respectfully, W. G. ELIOT, Commissioner of Parks, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1912, the Commissioner of Parks, Borough of Queens, requested the transfer of \$1,450 within accounts in his Department for the year 1912. In connection therewith I report as follows:

The following are the credit transfers:	
1112 Shoeing and Boarding Horses, including Veterinary Service.....	\$150 00
1109 Maintenance, Repairs and Storage of Automobiles.....	400 00
1117 Contingencies	500 00
1114 Forage	400 00
	\$1,450 00

The appropriation for No. 1112 was \$150. The expenditures to July 1, 1912 amounted to \$141.90. It is estimated that \$150 additional will be required for the rest of the year.

The sum of \$500 was appropriated for No. 1109. The expenditures to July 1, 1912, were \$495.74. It is estimated that \$400 additional will be required for the rest of the year.

The appropriation for No. 1117 was \$1,000. The expenditures to July 1, 1912, were \$884.85. It is estimated that \$400 additional will be required for the rest of the year.

The appropriation for No. 1114 was \$524.30. The expenditures to July 1, 1912, were \$504.24. It is estimated that \$400 additional will be required for the balance of the year.

The debit transfer is from No. 1119, Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, except Automobiles, Maintenance, Trees in City Streets. The sum of \$3,800 was appropriated for the account. There is sufficient balance to permit of the transfer.

I recommend the adoption of the attached resolution approving the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provision of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Department of Parks, Borough of Queens, for the year 1912, as follows:

FROM	
<i>Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, Except Automobiles.</i>	
Maintenance—	
1119 Trees in City Streets.....	\$1,450 00
TO	
<i>Maintenance, Repairs and Storage of Automobiles.</i>	
1109 Administration	\$400 00
TO	
<i>Shoeing and Boarding Horses, including Veterinary Service.</i>	
Maintenance—	
1112 Park and Boulevards.....	150 00
TO	
<i>Forage.</i>	
Maintenance—	
1114 Parks and Boulevards.....	400 00
TO	
<i>Contingencies.</i>	
1117 Administration	500 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$500 within the appropriation made to the Commissioner of Accounts for the year 1912.

City of New York, Office of the Commissioners of Accounts, 280 Broadway, June 11, 1912.

Honorable Board of Estimate and Apportionment, 277 Broadway, Manhattan:

Dear Sirs—Request is hereby made for a transfer of funds within the Budget appropriation for the office of the Commissioners of Accounts for the year 1912, as follows:

FROM	
Code 1296 "Contingencies, Administration"	\$500 00
TO	
<i>Code 1294 "Vehicular Transportation, Administration, Hire of Automobiles"</i>	
	\$500 00

This transfer is requested to replenish the fund for the hire of automobiles allowed this Commission for the year 1912, amounting to \$400. Nearly all of this amount has been expended, and I estimate that the above-mentioned \$500 will be required to take care of our needs for the balance of the year. Very truly yours,
RAYMOND B. FOSDICK, Commissioner of Accounts.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Commissioner of Accounts requested the transfer of \$500 from the 1912 Account Contingencies, No. 1296, Administration, to Vehicular Transportation, Administration, No. 1294, Hire of Automobiles. In connection therewith I report as follows:

The appropriation for No. 1294 was \$400. The expenditures and liabilities from the account to June 30 amounted to \$364.75, leaving a balance of \$35.25. The Commissioner states that the charges for the rest of the year will amount to about \$500, thereby making necessary the transfer.

The appropriation for No. 1296 was \$20,241. The balance on June 30 was \$12,156.37.

I recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the office of the Commissioner of Accounts for the year 1912, as follows:

FROM	
<i>Contingencies.</i>	
1296 Administration	\$500 00
TO	
<i>Vehicular Transportation.</i>	
Administration—	
1294 Hire of Automobiles.....	\$500 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$470 within the appropriation made to the County Clerk, New York County, for the year 1912.

County Clerk's Office, County of New York, New County Court House, New York, June 13, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York, New York City:

Dear Sir—I respectfully request a transfer of four hundred and seventy dollars from the appropriation made to this office for the year 1912, entitled "Purchase of Furniture and Fittings" (Code No. 2212, 1912), to the appropriation made to this office for the year 1912 entitled "Contingencies" (Code No. 2211, 1912), for the reason that the amount appropriated for Contingencies—\$530—is not sufficient for the needs of this office for the year 1912, whereas the amount appropriated for "Purchase of Furniture and Fittings" is in excess of what I now think will be required for the year 1912. Respectfully,
WM. F. SCHNEIDER.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1912, the County Clerk of New York County requested the transfer of \$470 within appropriations to his office for 1912. In connection therewith I report as follows:

The transfer is from No. 2212, Purchase of Furniture and Fittings, to No. 2211, Contingencies. The appropriation for No. 2211 was \$530. The County Clerk states that the charges against the account to May 31 were as follows:

Postage	\$204 98
Laundry	19 20
Carfare, etc.	19 43
Rental of typewriters.....	9 00
Incidentals	55 20
Notarial fee	10 00
Rubber stamps	10 40
Subscription to Bullinger's Guide.....	7 00
	\$335 21

The County Clerk further states that there is more than \$100 of outstanding contingent liabilities, and that the \$480 requested will be necessary to carry the account to the end of the year. He estimates that the \$470 will be spent as follows:

Postage	\$200 00
Laundry	30 00
Carfare, etc.	100 00
Rental of typewriters	20 00
Rubber stamps, etc.....	50 00
Incidentals	70 00
	\$470 00

In view of the foregoing I recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the office of the County Clerk, New York County, for the year 1912, as follows:

FROM	
2212 Purchase of Furniture and Fittings.....	\$470 00
TO	
2211 Contingencies	
	\$470 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$13,200 within the appropriation made to the Department of Docks and Ferries for the year 1912.

Department of Docks and Ferries, City of New York, Pier "A" North River, New York, July 11, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman of the Board of Estimate and Apportionment:

Sir—Additional moneys are required in the item of supplies for the Bureau of Ferries in this Department's 1912 Budget, to provide funds for the purchase of additional life preservers for the ferryboats to meet the recent requirements of the United States Inspectors.

I request the sum of \$13,200 be transferred from Item No. 151, Repairs by Contract or Open Order, Ferries, to Item No. 148, Supplies and Materials, Ferries.

It is requested that this transfer be authorized at your meeting to be held on the 15th inst., as the funds are needed in the supply item at once.

Very truly yours,
CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of July 11, 1912, the Commissioner of Docks requested the transfer of \$13,200 from Account No. 151, Repairs and Replacements by Contract or Open Order, Ferries, to Account No. 148, Supplies and Materials, Ferries.

The money requested for the transfer is to meet a mandatory requirement of the United States Government. This requirement is that all ferryboats shall carry a sufficient number of life preservers to provide one for each passenger. It is stated that serious complications may result unless the life preservers are procured at once.

I recommend the adoption of the attached resolution carrying the request into effect. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Docks and Ferries, to be as follows:

DEPARTMENT OF DOCKS AND FERRIES.
Repairs and Replacements by Contract or Open Order.

FROM	
151 Ferries	\$13,200 00
TO	
<i>Supplies and Materials.</i>	
148 Ferries	\$13,200 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

\$430 within the appropriation made to the Department of Street Cleaning for the year 1912.

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, June 29, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment:

Sir—I have to request that a further revision of schedules and transfer amounting to the sum of four hundred and thirty dollars (\$430) be made within the appropriation allowed the Department of Street Cleaning for the year 1912, entitled and as follows:

FROM	
<i>Telephone Service.</i>	
833 General Administration	\$430 00
TO	
834 Manhattan	
	\$160 00
835 Brooklyn	
	35 00
836 The Bronx	
	235 00

The above transfer will enable this Department to certify to the Department of Finance the contracts for the year 1912, with the New York Telephone Company.

Respectfully,
WM. H. EDWARDS, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of June 29, 1912, the Commissioner of Street Cleaning requested the transfer of \$430 within his appropriation for telephone service for the year 1912, as follows:

FROM	
<i>Telephone Service.</i>	
833 General Administration	\$430 00
TO	
<i>Telephone Service.</i>	
834 Manhattan	\$160 00
835 Brooklyn	35 00
836 The Bronx	235 00

The transfer requested is necessary in order to enable the Department to certify telephone contracts for the year 1912.
I recommend the adoption of the attached resolution carrying the request into effect. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Street Cleaning, as follows:

DEPARTMENT OF STREET CLEANING.	
Telephone Service.	
FROM	
833 General Administration	\$430 00
TO	
Telephone Service.	
834 Manhattan	\$160 00
835 Brooklyn	35 00
836 The Bronx	235 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented resolutions of the Board of Aldermen requesting issues of special revenue bonds (subdivision 8, section 188 of the Charter), communications relative thereto, and reports of the Comptroller making recommendations as follows:

A—Resolution of the Board of Aldermen requesting an issue of \$4,000 for the employment of an emergency force in the Bureau of Sewers, under the jurisdiction of the President of the Borough of Richmond; communication from President of the Borough of Richmond relative thereto; together with a report of the Comptroller recommending an issue of \$600 for said purpose, and also approval of schedule for fund.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four thousand dollars (\$4,000), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of providing payment for the remainder of the year 1912 of a reserve force in the Bureau of Sewers to be employed in emergency cases.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, July 2, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—We are in receipt of a notice from the Comptroller that in accordance with a recent opinion of Corporation Counsel, the Finance Department will not allow pay for more than eight hours per day for Laborers on payrolls presented by this office for payment.

It has been the custom in this office in cases of emergency to call on the regular men after the usual working time for this emergency service, particularly the stoppages in sewers, paying the men so employed extra for the overtime. As these emergencies did not frequently arise our ordinary funds were sufficient to meet them. In the Bureau of Sewers of this office, however, under the new arrangement it will be necessary to provide for a reserve force to be employed in emergency cases so as to avoid claims for damages which otherwise are likely to arise against the City, and for this purpose I would request the authorization of revenue bonds to the amount of \$4,000 for the use of the Bureau of Sewers. The amount is based on a force of two Watchmen and eight extra Laborers for the remainder of the year, this force to be held in reserve and called on when required. I am today sending a similar communication to the Board of Aldermen for recommendatory action by it. Yours truly,
GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting special revenue bonds to the extent of \$4,000, for the payment of wages for the remainder of the year of an emergency force in the Bureau of Sewers in the office of the President of the Borough of Richmond. In connection therewith I report as follows:

The request contemplates the employment of a force during other than the regular hours, in order that emergency work may be promptly attended to. In support of the request is an opinion of the Corporation Counsel stating that the Comptroller is not legally justified in making payments on payrolls where overtime is claimed by Laborers in the City departments.

I recommend that a temporary force be provided for at a cost of \$600, and that your Board concur in the request to that extent by the adoption of the attached resolutions. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the resolution of the Board of Aldermen adopted July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of four thousand dollars (\$4,000), to provide funds for the employment of an emergency force in the Bureau of Sewers under the jurisdiction of the President of the Borough of Richmond, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of six hundred dollars (\$600), and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six hundred dollars (\$600), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the President of the Borough of Richmond for the year 1912, as follows:

PRESIDENT OF THE BOROUGH OF RICHMOND.	
Personal Service, Sewers.	
	Paid From
	Paid from Revenue
	Budget. Bonds.
Maintenance—	
2094 Wages, Temporary Employees:	
Laborer, at \$2 per day (878 days).....	\$1,756 00
Laborer, at \$2 per day (100 days).....	200 00
Watchman, at \$2 per day (200 days).....	400 00
	\$1,756 00
	600 00
Schedule total	\$2,356 00
Tax levy allowance.....	\$1,756 00
Revenue bond allowance.....	600 00
Schedule total	\$2,356 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

B—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$350, for necessary repairs to the apartments occupied by the Warden of the New York County Jail, under the jurisdiction of the Sheriff of New York County; all obligations thereunder to be contracted for prior to December 31, 1912:
(Referred to Comptroller, July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three hundred and fifty dollars (\$350), the proceeds whereof to be used by the Sheriff of New York County for the purpose of making necessary repairs to the apartments occupied by the Warden of the New York County Jail, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.
Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting \$350 in special revenue bonds to be used by the Sheriff of New York County to make repairs to the apartments of the Warden of the New York County Jail. In connection therewith I report as follows:

The Sheriff states that these apartments have not been done over in seven years and that repairs and renovating, to cost approximately \$350, are necessary.

I recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting an issue of special revenue bonds in the sum of three hundred and fifty dollars (\$350), the proceeds whereof to be used by the Sheriff of New York County for the purpose of making necessary repairs to the apartments occupied by the Warden of the New York County Jail, all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and fifty dollars (\$350), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

C—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending an issue \$1,350 for the salaries of nine Attendants, at \$50 each per month during the months of July, August and September, 1912, Department of Parks, Boroughs of Manhattan and Richmond; also approval of schedule for fund.
(Referred to Comptroller, July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand three hundred and fifty dollars (\$1,350), the proceeds whereof to be used by the Park Department, Manhattan and Richmond, for the purpose of paying salaries of nine Attendants at \$50 each per month during the months of July, August and September, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.
Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting \$1,350 in special revenue bonds, to be used by the Park Department, Manhattan and Richmond, for the purpose of paying salaries of nine Attendants, at \$50 each, per month, during the months of July, August and September, 1912. In connection therewith I report as follows:

To provide for a vacation for 38 Cottage Attendants for two weeks each, the Commissioner estimates that the services of the nine additional Cottage Attendants, at \$50 per month, will be required for the three months, entailing an additional cost in the sum of the request.

I recommend the adoption of the attached resolution approving the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The resolution approving of and concurring in the above resolution of the Board of Aldermen failed of adoption, not receiving the unanimous vote of the Board, in accordance with the provisions of subdivision 8 of section 188 of the Charter.

D—Resolution of the Board of Aldermen requesting \$422, for the purpose of paying bills incurred by the Sheriff of Queens County at the primary election held in September, 1911, together with a report of the Comptroller recommending an issue of \$365 for this purpose:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four hundred and twenty-two dollars (\$422), the proceeds whereof to be used by the Sheriff of Queens County for the purpose of paying bills incurred on the day of the primary election held in September, 1911.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting \$422 in special revenue bonds, to be used by the Sheriff of Queens County for the purpose of paying bills incurred at the primary election held in September, 1911. In connection therewith I report as follows:

The Sheriff states that he employed 57 Special Deputy Sheriffs, and incurred an expense of \$80 for automobile hire to comply with the Governor's order regarding the election. Special Deputy Sheriffs for Primary Elections in the County of Kings are paid \$5 a day, and that rate seems to be a reasonable compensation for the Deputies in Queens, instead of \$6, as proposed by the Sheriff.

I, therefore, recommend the adoption of the attached resolution granting the request to the extent of \$365. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds

in the sum of four hundred and twenty-two dollars (\$422), the proceeds whereof to be used by the Sheriff of Queens County for the purpose of paying bills incurred at the primary election held in Queens County in September, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of three hundred and sixty-five dollars (\$365), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and sixty-five dollars (\$365), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

E—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$500 for the purpose of meeting an anticipated deficit in the appropriation for the office of the Coroners, Borough of The Bronx, in the year 1912:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five hundred dollars (\$500), the proceeds whereof to be used by the Coroners of the Borough of The Bronx for the purpose of meeting an anticipated deficit in the appropriation for said office during the year 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting \$500 in special revenue bonds, to be used by the Coroners of The Bronx to meet an anticipated deficit in appropriation for 1912. In connection therewith I report as follows:

The Coroners state that their contingency fund of \$100 is practically exhausted, and that they will require at least \$500 for the rest of the year.

I therefore recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of five hundred dollars (\$500), the proceeds whereof to be used by the Coroners of the Borough of The Bronx for the purpose of meeting an anticipated deficit in the appropriation for said office during the year 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five hundred dollars (\$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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

F—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$2,000, proceeds to be used by the Department of Health for the purpose of reimbursing the Department of Docks and Ferries for labor and material to be furnished in making temporary repairs to the offal dock at the foot of West 39th street, Manhattan. (Referred to Comptroller, July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand dollars (\$2,000), the proceeds whereof to be used by Department of Health for the purpose of reimbursing Department of Docks and Ferries for labor and materials to be furnished in making temporary repairs to the offal dock at the foot of West 39th street, Borough of Manhattan, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

The Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of \$2,000, the proceeds to be used by Department of Health for purposes of reimbursing the Department of Docks and Ferries for temporary repairs to the offal dock at the foot of West 39th street, Borough of Manhattan. In connection therewith I report as follows:

The Secretary of the Department of Health states that the contractor for the removal of nightsoil, offal and dead animals has notified the Department on several occasions that the dock referred to is in a dangerous condition and that unless it is repaired without delay it will be almost impossible to continue the work.

The temporary repairs necessary are to be made by the Department of Docks and Ferries, the cost to be reimbursed by the Department of Health.

I recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting an issue of special revenue bonds to the amount of two thousand dollars (\$2,000), the proceeds whereof to be used by the Department of Health for the purpose of reimbursing Department of Docks and Ferries for labor and materials to be furnished in making temporary repairs to the offal dock at the foot of West 39th street, Borough of Manhattan, all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand dollars (\$2,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

G—Resolution of the Board of Aldermen requesting \$37,550 for the maintenance of the Brooklyn Bridge during the year 1912, all obligations to be incurred previous to December 31, 1912;

H—Resolution of the Board of Aldermen requesting \$67,895 for the maintenance of the Williamsburg Bridge during the year 1912, all obligations to be incurred previous to December 31, 1912, together with a report of the Comptroller recommending an issue of \$37,227.50 for Item G and \$55,092.90 for Item H, and also approval of schedules for the funds:

(Referred to Comptroller, July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it

is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirty-seven thousand five hundred and fifty-dollars (\$37,550), the proceeds whereof to be used by the Department of Bridges for the purpose of maintenance of the Brooklyn Bridge, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of sixty-seven thousand eight hundred and ninety-five dollars (\$67,895), the proceeds whereof to be used by the Department of Bridges for the purpose of maintenance of the Williamsburg Bridge, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted two resolutions requesting special revenue bonds to the amounts of \$37,550 and \$67,895, respectively, to be used by the Department of Bridges for the following purposes:

For Maintenance of Brooklyn Bridge..... \$37,550 00
For Maintenance of Williamsburg Bridge..... 67,895 00
All obligations contracted for hereunder to be incurred before December 31, 1912.

In connection therewith I report as follows:

BROOKLYN BRIDGE.

The estimated requirements for the operation and maintenance of the Brooklyn Bridge during the year 1912 were set forth in my report to your Board, under date of May 7, as \$387,227.50. Of this sum \$300,000 has already been appropriated from the revenues of the bridge and \$50,000 provided in special revenue bonds, leaving a balance of \$37,227.50 as yet unprovided for.

The following table shows the estimated requirements for the several accounts, the amounts already provided and the additional amounts required:

Operation and Maintenance, Brooklyn Bridge, 1912.

Short Title of Account.	Estimated Requirements, 1912.	Already Provided, 1912.	Additional Allowances Recommended, 1912.
General, Salaries, Regular Employees.....	\$53,064 00	\$48,300 00	\$4,764 00
General, Wages, Regular Employees.....	254,000 00	231,810 00	22,190 00
General, Wages, Temporary Employees.....	21,406 00	18,032 50	3,373 50
Emergency Snow Removal, Wages, Temporary Employees.....	1,767 50	1,767 50	.....
Vehicular Transportation, General.....	4,000 00	3,600 00	400 00
Emergency Snow Removal.....	900 00	900 00	.....
Supplies and Materials.....	40,000 00	34,000 00	6,000 00
Repairs and Replacements by Contract or Open Order.....	2,800 00	2,500 00	300 00
Housing, Storage and Repairs of Apparatus, etc.....	1,400 00	1,200 00	200 00
Purchase and Original Equipment of Apparatus, etc.....	600 00	600 00	.....
Shoeing and Boarding Horses, including Veterinary Services.....	400 00	400 00	.....
Forage.....	1,400 00	1,400 00	.....
Fuel.....	4,000 00	4,000 00	.....
Telephone Service.....	900 00	900 00	.....
Repairs to Furniture and Fittings.....	25 00	25 00	.....
Purchase of Furniture and Fittings.....	100 00	100 00	.....
Purchase of Horses.....	325 00	325 00	.....
Contingencies.....	100 00	100 00	.....
Special Contract Obligations.....	40 00	40 00	.....
	\$387,227 50	\$350,000 00	\$37,227 50

Approval of the request of the Board of Aldermen to the extent of \$37,227.50 would therefore appear to be proper.

WILLIAMSBURG BRIDGE.

The tentative requirements for the operation and maintenance of the Williamsburg Bridge were set forth in my report to your Board under date of May 18, 1912. In that report the probable resources of the bridge during 1912 were stated as follows:

Unencumbered balance on hand January 1, 1912..... \$10,745 00
Estimated revenues during year..... 131,000 00
Special revenue bonds authorized..... 50,000 00

Additional special revenue bonds to the amount of \$50,000 were authorized by your Board on May 23, 1912, making the present estimated resources \$241,745.

No analysis of the probable requirements for Personal Service and Vehicular Transportation was made in my report, it being therein stated that the Commissioner's estimate of \$256,047.90 for those scheduled accounts was \$13,790.50 less than the total of the existing schedules.

The revised estimate of the probable requirements for the unscheduled accounts was shown as follows:

Supplies and Materials.....	\$16,000 00
Repairs and Replacements.....	22,000 00
Housing, Storage and Repairs of Apparatus, etc.....	100 00
Purchase and Original Equipment of Apparatus, etc.....	760 00
Fuel.....	1,050 00
Telephone Service.....	500 00
Purchase of Furniture and Fittings.....	200 00
Contingencies.....	100 00

Total for Supplies and Contingent Expenses..... \$40,710 00

The estimated requirements for Personal Service and Vehicular Transportation, as shown in the request made by the Commissioner to the Board of Aldermen, compared with the existing schedules, is shown in the following table:

Short Title of Account.	Existing Schedule, 1912.	Requested for 1912.
<i>Personal Service, General.</i>		
Salaries, Regular Employees.....	\$43,900 00	\$43,900 00
Wages, Regular Employees.....	197,274 40	191,172 40
Wages, Temporary Employees.....	6,742 00	2,169 50
<i>Emergency Snow Removal.</i>		
Wages, Temporary Employees.....	4,200 00	3,800 00
<i>Vehicular Transportation.</i>		
General.....	14,244 00	14,216 00
Emergency Snow Removal.....	790 00	790 00
	\$267,150 40	\$256,047 90

Analysis of the payrolls to date shows that the requested amounts for the compensation of regular employees are conservative. Full allowance must be made for the compensation of temporary employees, as the schedule allowances can be used at any period during the year.

On the basis of the previous estimates, the deficit for the year 1912 would be as follows:

Personal Service and Vehicular Transportation (Commissioner's request)	\$256,047 90
Supplies and Contingent Expenses, as per Revised Estimate.....	40,710 00
Total requirements	\$296,757 90
Total resources (estimated).....	241,745 00

\$55,092 90

In view of the foregoing, I recommend the adoption of the attached resolutions, approving of the two requests of the Board of Aldermen to the extent of \$37,227.50 for the Brooklyn Bridge, and \$55,092.90 for the Williamsburgh Bridge, and modifying the existing schedules in conformity therewith. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting an issue of special revenue bonds in the sum of thirty-seven thousand five hundred and fifty dollars (\$37,550), the proceeds whereof to be used by the Department of Bridges for the maintenance of the Brooklyn Bridge; all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in, to the amount of thirty-seven thousand two hundred and twenty-seven dollars and fifty cents (\$37,227.50), by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding thirty-seven thousand two hundred and twenty-seven dollars and fifty cents (\$37,227.50), redeemable from the tax levy of the year succeeding the year of their issue, said appropriation to be administered in accordance with schedules duly approved by the Board of Estimate and Apportionment, and to be apportioned as follows:

DEPARTMENT OF BRIDGES.

Personal Service, Operation and Maintenance, Brooklyn Bridge.

General—	
Salaries, Regular Employees, Bridge Revenue Force.....	\$4,764 00
Wages, Regular Employees, Bridge Revenue Force.....	22,190 00
Wages, Temporary Employees, Bridge Revenue Force.....	3,373 50
Vehicular Transportation, Horses and Vehicles, with Drivers, Operation and Maintenance, Brooklyn Bridge.	
General	\$400 00
Supplies and Materials, Operation and Maintenance.	
Brooklyn Bridge	\$6,000 00
Repairs and Replacements by Contract or Open Order, Operation and Maintenance.	
Brooklyn Bridge	\$300 00
Housing, Storage and Repairs of Apparatus, Machines, Harness and Vehicles, Except Automobiles, Operation and Maintenance.	
Brooklyn Bridge	200 00
	\$37,227 50

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting an issue of special revenue bonds in the sum of sixty-seven thousand eight hundred and ninety-five dollars (\$67,895), the proceeds whereof to be used by the Department of Bridges for the maintenance of the Williamsburgh Bridge, all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in, to the amount of fifty-five thousand ninety-two dollars and ninety cents (\$55,092.90), by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifty-five thousand and ninety-two dollars and ninety cents (\$55,092.90), redeemable from the tax levy of the year succeeding the year of their issue; said appropriation to be administered in accordance with schedules duly approved 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedules, as revised, for the Department of Bridges, for the year 1912, to be effective July 15, 1912, as follows:

Personal Service, Operation and Maintenance, General, Brooklyn Bridge.

Salaries, Regular Employees, Bridge Revenue Force—	
Assistant Engineer	\$5,000 00
Assistant Engineer	2,700 00
Assistant Engineer	1,800 00
Draftsman	1,800 00
Rodman	1,050 00
Steel Inspector	1,650 00
Clerk	2,250 00
Clerk	1,050 00
Clerk	360 00
Stenographer and Typewriter.....	1,200 00
Telephone Operator	750 00
Messenger	1,200 00
Storekeeper	1,200 00
Foreman Brick Mason.....	1,800 00
Master Mechanic	2,400 00
Superintendent of Electric Lights.....	2,200 00
Foreman Carpenter	2,400 00
Foreman Carpenter	1,500 00
Foreman Lineman	1,500 00
Foreman Riveter	2,100 00
Foreman Riveter	1,800 00
Foreman Bridge Mechanic.....	1,500 00
Foreman Painter	1,800 00
Foreman Painter, 2 at \$1,500.....	3,000 00
Foreman Blacksmith	1,800 00
Foreman Laborer	2,150 00
Foreman Laborer	1,500 00
Assistant Foreman Laborer.....	1,500 00
Assistant Foreman, 2 at \$1,500.....	3,000 00
Balance unassigned	300 00
Schedule Total	\$54,260 00
Rate of Bridge Revenue Allowance.....	\$42,496 00
Special Revenue Bond Allowance.....	11,764 00
Total Allowance	\$54,260 00

Wages, Regular Employees, Bridge Revenue Force—	
Riveter, 34 at \$5 per day (279 days).....	\$47,430 00
Housesmith, 3 at \$5 per day (279 days).....	4,185 00
Bridge Mechanic, 1 at \$5 per day (279 days).....	1,395 00
Stone Cutter, 3 at \$5 per day (279 days).....	4,185 00
Mason (Bricklayer), 4 at \$5.60 per day (279 days).....	6,249 60
Carpenter or Ship Carpenter, 16 at \$5 per day (279 days).....	22,320 00
Rigger, 3 at \$3.75 per day (279 days).....	3,138 75
Machinist, 10 at \$4.50 per day (279 days).....	12,555 00
Stoker or Licensed Fireman, 2 at \$3 per day (366 days).....	2,196 00
Machinist's Helper, 4 at \$3 per day (279 days).....	3,348 00
Blacksmith's Helper, 5 at \$3 per day (279 days).....	4,185 00
Mason's Helper, 1 at \$3 per day (279 days).....	837 00
Blacksmith, 3 at \$4.50 per day (279 days).....	3,766 50
Wireman or Electrician, 5 at \$4.50 per day (366 days).....	8,235 00
Wireman or Electrician, 7 at \$4.50 per day (304 days).....	9,576 00
Stationary Engineer, 4 at \$4.50 per day (366 days).....	6,588 00
Stationary Engineer, 1 at \$4.50 per day (314 days).....	1,413 00
Fireman, 1 at \$3 per day (366 days).....	1,098 00
Painter or Bridge Painter, 21 at \$4 per day (279 days).....	23,436 00
Driver, 7 at \$2.50 per day (366 days).....	6,405 20
Watchman, 2 at \$3 per day (366 days).....	2,196 00
Watchman, 12 at \$2.50 per day (366 days).....	10,980 00
Attendant, 6 at \$2.50 per day (366 days).....	5,490 00
Laborer, 7 at \$3 per day (366 days).....	7,686 00
Laborer, 4 at \$3 per day (279 days).....	3,348 00
Laborer, 5 at \$2.75 per day (366 days).....	5,032 50
Laborer, 37 at \$2.50 per day (366 days).....	33,855 00
Laborer, 24 at \$2.50 per day (304 days).....	18,240 00

Schedule Total

\$259,369 35

Rate of Bridge Revenue Allowance.....

\$202,369 35

Special Revenue Bond Allowance.....

57,000 00

Total Allowance

\$259,369 35

Wages, Temporary Employees, Bridge Revenue Force—

Machinist, at \$4.50 per day (40 days).....	\$180 00
Machinist's Blacksmith's or Mason's Helper, at \$3 per day (82 days).....	246 00
Stationary Engineer, at \$4.50 per day (60 days).....	270 00
Stoker or Licensed Fireman, at \$3 per day (10 days).....	30 00
Riveter or Bridge Mechanic, at \$5 per day (215 days).....	1,075 00
Housesmith, at \$5 per day (10 days).....	50 00
Rigger, at \$3.75 per day (10 days).....	37 50
Carpenter or Ship Carpenter, at \$5 per day (50 days).....	250 00
Blacksmith, at \$4.50 per day (10 days).....	45 00
Wireman or Electrician, at \$4.50 per day (298 days).....	1,341 00
Mason (Bricklayer), at \$5.60 per day (10 days).....	56 00
Stone Cutter, at \$5 per day (10 days).....	50 00
Painter or Bridge Painter, at \$4 per day (4,272 days).....	17,088 00
Driver, at \$2.50 per day (25 days).....	62 50
Watchman, at \$3 per day (10 days).....	30 00
Watchman, at \$2.50 per day (44 days).....	110 00
Attendant, at \$2.50 per day (84 days).....	210 00
Laborer, at \$3 per day (20 days).....	60 00
Laborer, at \$2.75 per day (10 days).....	27 50
Laborer, at \$2.50 per day (75 days).....	187 50

Schedule total

\$21,406 00

Bridge Revenue Allowance.....

\$17,032 50

Special Revenue Bond Allowance.....

4,373 50

Total allowance

\$21,406 00

Williamsburgh Bridge.

Salaries, Regular Employees, Bridge Revenue Force—	
Assistant Engineer	\$5,000 00
Assistant Engineer	2,100 00
Clerk	1,500 00
Stenographer and Typewriter.....	1,200 00
Messenger	1,200 00
Telephone Operator	750 00
Transitman	1,800 00
Rodman	1,200 00
Axeman	900 00
Steel Inspector, 2 at \$1,650.....	3,300 00
Draftsman	1,800 00
Storekeeper	1,200 00
Foreman Laborer	2,400 00
Foreman Laborer	2,150 00
Foreman Laborer	1,200 00
Foreman Riveter	2,100 00
Foreman Riveter	1,800 00
Foreman Carpenter, 2 at \$1,500.....	3,000 00
Foreman Painter, 3 at \$1,500.....	4,500 00
Foreman Brick Mason.....	1,800 00
Foreman Lineman, 2 at \$1,500.....	3,000 00

Schedule total

\$43,900 00

Rate of Bridge Revenue and Special Revenue Bond Allowance.....

43,900 00

Wages, Regular Employees, Bridge Revenue Force—

Riveter, 27 at \$5 per day (279 days).....	\$37,665 00
Stonecutter, 2 at \$5 per day (279 days).....	2,790 00
Rigger, 2 at \$3.75 per day (279 days).....	2,092 50
Housesmith, 2 at \$5 per day (279 days).....	2,790 00
Bridge Mechanic, 2 at \$5 per day (279 days).....	2,790 00
Blacksmith, 2 at \$4.50 per day (279 days).....	2,511 00
Carpenter or Ship Carpenter, 11 at \$5 per day (279 days).....	15,345 00
Wireman, 4 at \$4.50 per day (279 days).....	6,588 00
Wireman, 4 at \$4.50 per day (279 days).....	5,022 00
Inspector of Electric Lighting Conductors, 2 at \$4.50 per day (366 days).....	3,294 00
Inspectors of Masonry, 1 at \$5 per day (279 days).....	1,395 00
Paver, 6 at \$5 per day (279 days).....	8,370 00
Rammer, 3 at \$4 per day (279 days).....	3,348 00
Blacksmith's Helper, 1 at \$25 per week (52 weeks).....	1,300 00
Blacksmith's Helper, 2 at \$3 per day (279 days).....	1,674 00
Decorator, 1 at \$4.50 per day (279 days).....	1,255 50
Painter or Bridge Painter, 35 at \$4 per day (279 days).....	39,060 00
Watchman, 7 at \$2.50 per day (366 days).....	6,405 00
Attendant, 15 at \$2.50 per day (366 days).....	13,725 00
Laborer, 4 at \$3 per day (366 days).....	4,392 00
Laborer, 2 at \$3 per day (314 days).....	1,884 00
Laborer, 12 at \$2.50 per day (366 days).....	10,980 00
Laborer, 24 at \$2.50 per day (314 days).....	18,840 00
Mason (Bricklayer), 1 at \$5.60 per day (279 days).....	1,562 40
Cleaner, 3 at \$2 per day (366 days).....	2,196 00

Schedule total

\$197,274 40

Rate of Bridge Revenue and Special Revenue Bond Allowance.....

197,274 40

Wages, Temporary Employees, Bridge Revenue Force—

Bridge Mechanic, at \$5 per day (12 days).....	\$60 00
Riveter, at \$5 per day (162 days).....	810 00
Housesmith, at \$5 per day (12 days).....	60 00

Rigger, at \$3.75 per day (12 days).....	45 00
Painter or Bridge Painter, at \$4 per day (210 days).....	840 00
Inspector of Electric Lighting and Conductors, at \$4.50 per day (28 days).....	126 00
Wireman, at \$4.50 per day (112 days).....	504 00
Carpenter or Ship Carpenter at \$5 per day (66 days).....	330 00
Paver, at \$5 per day (300 days).....	1,500 00
Rammer, at \$4 per day (75 days).....	300 00
Blacksmith, at \$4.50 per day (12 days).....	54 00
Blacksmith's Helper, at \$3 per day (12 days).....	36 00
Attendant, at \$2.50 per day (21 days).....	52 50
Cleaner, at \$2 per day (21 days).....	42 00
Laborer, at \$3 per day (100 days).....	300 00
Laborer, at \$2.50 per day (575 days).....	1,437 50
Watchman, at \$2.50 per day (98 days).....	245 00
Schedule total	\$6,742 00
Rate of Bridge Revenue and Special Revenue Bond Allowance.....	6,742 00
<i>Emergency Snow Removal.</i>	
Brooklyn Bridge.	
Wages, Temporary Employees, Bridge Revenue Force—	
Laborer (Departmental), at \$3 per day (30 days).....	\$90 00
Laborer (Departmental), at \$2.75 per day (13 days).....	27 50
Laborer (Departmental), at \$2.50 per day (150 days).....	375 00
Driver (Departmental), at \$2.50 per day (30 days).....	75 00
Laborer, at \$2 per day (600 days).....	1,200 00
Schedule total	\$1,767 50
Bridge Revenue Allowance.....	1,767 50
Williamsburg Bridge.	
Wages, Temporary Employees, Bridge Revenue Force—	
Laborer, at \$2 per day (1,800 days).....	\$3,600 00
Laborer (Departmental), at \$2.50 per day (174 days).....	435 00
Laborer (Departmental), at \$3 per day (55 days).....	165 00
Schedule total	\$4,200 00
Rate of Bridge Revenue and Special Revenue Bond Allowance.....	4,200 00
<i>Supplies and Materials.</i>	
106 Administration	\$1,410 00
Tax Levy Allowance	1,410 00
107 Operation and Maintenance:	
Tax Levy Bridges	\$44,952 00
Brooklyn Bridge	40,000 00
Williamsburg Bridge	16,000 00
Schedule Total	\$100,952 00
Tax Levy Allowance	\$44,952 00
Bridge Revenue and Special Revenue Bond Allowance.....	56,000 00
Total Allowance	\$100,952 00
<i>Repairs and Replacements by Contract or Open Order.</i>	
108 Administration	\$100 00
Tax Levy Allowance	100 00
109 Operation and Maintenance:	
Tax Levy Bridges	\$45,955 00
Brooklyn Bridge	2,800 00
Williamsburg Bridge	22,000 00
Schedule Total	\$70,755 00
Tax Levy Allowance	\$45,955 00
Bridge Revenue and Special Revenue Bond Allowance.....	24,800 00
Total Allowance	\$70,755 00
<i>Repairs to Furniture and Fittings.</i>	
110 Administration	\$80 00
Tax Levy Allowance	80 00
Operation and Maintenance:	
Brooklyn Bridge	\$25 00
Bridge Revenue Allowance	25 00
<i>Housing, Storage and Repairs of Apparatus, Machines, Harness and Vehicles, Except Automobiles.</i>	
111 Operation and Maintenance:	
Tax Levy Bridges	\$925 00
Brooklyn Bridge	1,400 00
Williamsburg Bridge	100 00
Schedule Total	\$2,425 00
Tax Levy Allowance	\$925 00
Bridge Revenue and Special Revenue Bond Allowance.....	1,500 00
Total Allowance	\$2,425 00
<i>Maintenance, Repairs and Storage of Automobiles.</i>	
112 Administration	\$2,500 00
Tax Levy Allowance	2,500 00
113 Operation and Maintenance	\$500 00
Tax Levy Allowance	500 00
<i>Vehicular Transportation, Horses and Vehicles, with Drivers.</i>	
Operation and Maintenance—	
114 General:	
Tax Levy Bridges:	
Driver, with Horse and Vehicle, at \$3 per day (366 days).....	\$1,098 00
Driver, with Team and Vehicle, at \$8 per day (5 days).....	40 00
Driver, with Team and Vehicle, at \$7 per day (700 days).....	4,900 00
Driver, with Horse and Vehicle, at \$4 per day (1,864 days).....	7,456 00
	\$13,494 00
Brooklyn Bridge, Bridge Revenue Force—Driver, with Horse and Cart, at \$4 per day (1,000 days).....	\$4,000 00
Williamsburg Bridge, Bridge Revenue Force:	
Driver, with Horse and Cart, 4 at \$4 per day (304 days).....	\$4,864 00
Driver, with Team and Truck, 2 at \$7 per day (366 days).....	5,124 00
Driver, with Team and Truck, 2 at \$7 per day (304 days).....	4,256 00
	\$14,244 00
Schedule Total	\$31,738 00
Tax Levy Allowance	\$13,494 00
Bridge Revenue and Special Revenue Bond Allowance.....	18,244 00
Total Allowance	\$31,738 00

115 Emergency Snow Removal:	
Tax Levy Bridges:	
Driver, with Team and Truck, at \$7 per day (637 days).....	\$4,459 00
Driver, with Team and Cart, at \$4 per day (375 days).....	1,500 00
Driver, with Horse and Cart, at \$3.50 per day (40 days).....	140 00
	\$6,099 00
Brooklyn Bridge, Brooklyn Bridge Revenue Force—Driver, with Horse and Cart, at \$4 per day (225 days).....	\$900 00
Williamsburg Bridge:	
Driver, with Team and Truck, at \$7 per day (70 days).....	\$490 00
Driver, with Horse and Light Wagon, at \$4 per day (15 days).....	60 00
Driver, with Horse and Cart, at \$4 per day (60 days).....	240 00
	\$790 00
Schedule Total	\$7,789 00
Tax Levy Allowance	\$6,099 00
Bridge Revenue and Special Revenue Bond Allowance.....	1,690 00
Total Allowance	\$7,789 00
<i>Shoeing and Boarding Horses, Including Veterinary Service.</i>	
116 Operation and Maintenance:	
Tax Levy Bridges	\$3,750 00
Brooklyn Bridge	400 00
Schedule Total	\$4,150 00
Tax Levy Allowance	\$3,750 00
Bridge Revenue Allowance	400 00
Total Allowance	\$4,150 00
<i>Fuel.</i>	
117 Operation and Maintenance:	
Tax Levy Bridges	\$8,703 00
Brooklyn Bridge	4,000 00
Williamsburg Bridge	1,050 00
Schedule Total	\$3,753 00
Tax Levy Allowance	\$8,703 00
Bridge Revenue and Special Revenue Bond Allowance.....	5,050 00
Total Allowance	\$13,753 00
<i>Forage.</i>	
Operation and Maintenance, Brooklyn Bridge.....	\$1,400 00
Bridge Revenue Allowance	1,100 00
Special Revenue Bond Allowance.....	300 00
Total Allowance	\$1,400 00
<i>Special Contract Obligations.</i>	
118 Operation and Maintenance:	
Tax Levy Bridges	\$740 00
Brooklyn Bridge	40 00
Schedule Total	\$780 00
Tax Levy Allowance	\$740 00
Bridge Revenue Allowance	40 00
Total Allowance	\$780 00
<i>Telephone Service.</i>	
119 Administration	\$1,900 00
Tax Levy Allowance	1,900 00
Operation and Maintenance:	
Brooklyn Bridge	\$900 00
Williamsburg Bridge	500 00
Schedule Total	\$1,400 00
Bridge Revenue and Special Revenue Bond Allowance.....	\$1,400 00
<i>Contingencies.</i>	
120 Administration	\$600 00
Tax Levy Allowance	600 00
121 Operation and Maintenance:	
Tax Levy Bridges	\$1,980 00
Brooklyn Bridge	100 00
Williamsburg Bridge	100 00
Schedule Total	\$2,180 00
Tax Levy Allowance	\$1,980 00
Bridge Revenue and Special Revenue Bond Allowance.....	200 00
Total Allowance	\$2,180 00
<i>Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, Except Automobiles.</i>	
122 Operation and Maintenance:	
Tax Levy Bridges	\$200 00
Brooklyn Bridge	600 00
Williamsburg Bridge	760 00
Schedule Total	\$1,560 00
Tax Levy Allowance	\$200 00
Bridge Revenue and Special Revenue Bond Allowance.....	1,360 00
Total Allowance	\$1,560 00
<i>Purchase of Furniture and Fittings.</i>	
123 Administration	\$500 00
Tax Levy Allowance	500 00
124 Operation and Maintenance:	
Tax Levy Bridges	\$445 00
Brooklyn Bridge	100 00
Williamsburg Bridge	200 00
Schedule Total	\$745 00
Tax Levy Allowance	\$445 00
Bridge Revenue and Special Revenue Bond Allowance.....	300 00
Total Allowance	\$745 00
<i>Purchase of Horses.</i>	
125 Operation and Maintenance:	
Tax Levy Bridges	\$325 00
Brooklyn Bridge	325 00
Schedule Total	\$650 00

Tax Levy Allowance	\$325 00
Bridge Revenue Allowance	325 00
Total Allowance	\$650 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

I—Resolution of the Board of Aldermen requesting \$71,912 for the purpose of providing means for paying the wages of additional employees under the jurisdiction of the President of the Borough of Queens required on maintenance of highways, etc., together with a report of the Comptroller recommending an issue of \$53,625 for this purpose, and also approval of schedule for fund:
 (Referred to the Comptroller June 20, 1912.)

In the Board of Aldermen.

Resolved, That, pursuant to subdivision 8, section 188 of the Charter of The City of New York, the Comptroller be and is authorized to issue special revenue bonds to an amount not exceeding seventy-one thousand nine hundred and twelve dollars (\$71,912), proceeds whereof to be expended by the President of the Borough of Queens, to employ:

42 Foremen, for 75 days.....	\$12,600 00
75 Assistant Foremen, for 50 days.....	5,687 00
50 teams, for 100 days.....	30,000 00
90 horses and carts, for 75 days.....	23,625 00
Total	\$71,912 00

The appropriation funds for the purposes thereof being insufficient. All obligations contracted for hereunder to be incurred before December 31, 1912. Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.
 P. J. SCULLY, Clerk.
 Approved by the Mayor, June 18, 1912.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, The Board of Aldermen adopted a resolution requesting special revenue bonds in the sum of \$71,912, to be expended by the President of the Borough of Queens, as follows:

42 Foremen for 75 days.....	\$12,600 00
75 Assistant Foremen for 50 days.....	5,687 00
50 Teams, for 100 days.....	30,000 00
90 Horses and carts, for 75 days.....	23,625 00
Total	\$71,912 00

The allowances in the budget of 1912 for these items were as follows:

Foreman, at \$4 per day (7,800 days).....	\$31,200 00
Assistant Foreman, at \$3.25 per day (7,280 days).....	23,660 00
Driver, with horses and vehicle, at \$3.50 per day (15,906 days).....	55,671 00
Driver, with team and vehicle, at \$6 per day (5,200 days).....	31,200 00
Total	\$141,731 00

The expenditures against these allowances for the period ending June 29, 1912, were as follows:

Foreman (4,653 days).....	\$18,612 00
Assistant Foreman (3,866 days).....	12,564 50
Horse and vehicle (8,926 days).....	31,241 00
Team and vehicle (5,102 days).....	30,612 00
Total	\$93,029 50

The following table compares the laboring force, excluding horses and carts and teams, from January 6 to May 18:

Week Ending.	Foremen and Assistant Foremen.	Mechanics, Laborers (All Others.)	Average Number of Laborers to Each Foreman.
January 6.....	20	55	2 to 3
January 13.....	25	146	5 to 6
January 20.....	85	385	4 to 5
January 27.....	99	382	3 to 4
February 3.....	12	81	6 to 7
February 10.....	13	87	6 to 7
February 17.....	70	376	5 to 6
February 24.....	88	381	4 to 5
March 2.....	82	382	4 to 5
March 9.....	95	397	4 to 5
March 16.....	71	393	5 to 6
March 23.....	74	396	5 to 6
March 30.....	80	402	5
April 6.....	85	412	5
April 13.....	83	425	5
April 20.....	68	424	6
April 27.....	70	426	6
May 4.....	71	444	6 to 7
May 11.....	72	420	5 to 6
May 18.....	77	451	5 to 6
Total	1,340	6,865	*5

*About general average.

I am of the opinion that a greater number of men to the gang can be more profitably employed than is shown in the above table, thereby decreasing the supervisory force. The available balance for Foremen and Assistant Foremen is sufficient to provide supervision for gangs averaging 15 to 20, and I recommend that these items be not approved. Capable Laborers can be assigned to take charge of small gangs.

The amount of maintenance work that is necessary for the balance of the year, and as outlined by the President of the Borough, seems to indicate the need of additional vehicular transportation.

The vast area of the Borough of Queens and the widely separated points for delivery of materials for repairs by contractors furnishing same, and the impossibility of carrying on road repairs with any definitely laid out plans which sometimes causes the haul of materials three and four miles to an emergency point, further explains the great amount of vehicular transportation necessary.

I recommend the adoption of the attached resolutions granting the request to the amount of \$53,625, for vehicular transportation, and approving modification of the proper schedule. Respectfully,

WM. A. PRENDERGAST, Comptroller.

After discussion as to the amount to be allowed, the following resolution was adopted:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, and approved by the Mayor June 18, 1912, requesting an issue of special revenue bonds in the sum of seventy-one thousand nine hundred and twelve dollars (\$71,912), the proceeds thereof to be used by the President of the Borough of Queens, to employ:

42 Foremen, for 75 days.....	\$12,600 00
75 Assistant Foremen for 50 days.....	5,687 00
50 teams for 100 days.....	30,000 00
90 horses and carts for 75 days.....	23,625 00
Total	\$71,912 00

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of twenty-six thousand eight hundred and twelve dollars and fifty cents (\$26,812.50), apportioned as follows:

Driver, with team and vehicle, at \$6 per day (2,500 days).....	\$15,000 00
Driver, with horse and vehicle, at \$3.50 per day (3,375 days).....	11,812 50
Total	\$26,812 50

—and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding twenty-six thousand eight hundred and twelve dollars and fifty cents (\$26,812.50), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Queens for the year 1912, as follows:

Vehicular Transportation.

Horses and Vehicles, with Driver—Highways:
 2055 Driver, with horse and vehicle, at \$3.50 per day (19,281 days).... \$67,483 50
 Driver, with team and vehicle, at \$6 per day (7,700 days)..... 46,200 00

Schedule Total **\$113,683 50**

Tax levy, part allowance..... \$86,871 00
 Special revenue bond part allowance..... 26,812 50

Total allowance **\$113,683 50**

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

J—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$150 for the purpose of paying wages of temporary Interpreters of Foreign Languages to be employed by the Supreme Court, Kings County, prior to December 31, 1912; also approval of schedule for fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one hundred and fifty dollars (\$150), the proceeds whereof to be used by the Supreme Court, Second Department, Kings County, for the purpose of paying wages of temporary Interpreters of foreign languages, to be employed by said Court on or before December 31, 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.
 Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting \$150 in special revenue bonds to be used by the Supreme Court, Second Department, Kings County, for the purpose of paying wages of Temporary Interpreters of foreign languages, to be employed by said Court on or before December 31, 1912.

The General Clerk of the Court states that the budget allowance for this purpose in 1912 was \$200, and that there is now only a balance of \$85 in the fund, and it is estimated that \$150 additional thereto will be required for the rest of the year.

I recommend the adoption of the attached resolution granting the request and approving the necessary schedule modification. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor, July 15, 1912, requesting an issue of special revenue bonds in the sum of one hundred and fifty dollars (\$150), the proceeds whereof to be used by the Supreme Court, Second Department, Kings County, for the purpose of paying wages of Temporary Interpreters of foreign languages to be employed by said Court on or before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one hundred and fifty dollars (\$150), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule for a special revenue bond appropriation made to the Supreme Court, Second Department, for the year 1912 as follows:

SUPREME COURT, SECOND DEPARTMENT.

Personal Service, Administration.

	Paid from Tax Levy Appropriation.	Paid from Revenue Bond Fund.	Total.
2287 Wages, Temporary Employees.....	\$200 00	\$150 00	\$350 00
Schedule Total	\$350 00		
Tax Levy Appropriation	200 00		
Revenue Bond Fund Allowance.....		150 00	
Total	\$350 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

K—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$1,955, for the purpose of providing means for the purchase by the Department of Public Charities of one automobile ambulance and one touring car:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand nine hundred and fifty-five dollars (\$1,955), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying for one automobile ambulance, \$975; one touring car, \$980.

Adopted by the Board of Aldermen July 2, 1912, three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor July 9, 1912.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 2, 1912, the Board of Aldermen requested \$1,955 in special revenue bonds, the proceeds to be used by the Department of Public Charities for the purpose of paying for one automobile ambulance, \$975; one touring car, \$980. In connection therewith, I report as follows:

The two cars were purchased in the early part of the present year. The automobile is used to transfer to the different institutions on Blackwells Island patients received at the Emergency Hospital at the foot of East 70th street. The touring car replaced one purchased in 1906 for the use of the Deputy Commissioner. Repairs to it have been so frequent that the Superintendent of the Bridge Garage states that it will be inadvisable to make further repairs. No provision was made in the Budget for 1912 for the purchase of automobiles. Vouchers for the two new cars were forwarded to the Finance Department as a charge against No. 626, Supplies and Materials, Manhattan and The Bronx. The vouchers were returned with the statement that

An appropriation for Supplies and Materials is not available for the purchase of automobiles, and in the absence of a specific appropriation for the purpose, the Comptroller is prevented from making payment therefor.

The purchase of the automobiles in question seems to have been necessary. In view of the fact that no Budget funds are available for the expenditure involved, the request for special revenue bonds to meet the cost is a proper one.

I recommend the adoption of the attached resolution approving the request.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 2, 1912, and approved by the Mayor July 9, 1912, requesting an issue of special revenue bonds in the sum of one thousand nine hundred and fifty-five dollars (\$1,955), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying for one automobile ambulance, \$975, and one touring car, \$980, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand nine hundred and fifty-five dollars (\$1,955), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

L—Resolution of the Board of Aldermen requesting \$450 for the purpose of paying the salary of an additional Clerk in the Department of Correction, from July 1 to December 31, 1912; together with a report of the Comptroller recommending an issue of \$375 to pay said salary from August 1 to December 31, 1912, and also approval of schedule for fund:

(Referred to the Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four hundred and fifty dollars (\$450), the proceeds whereof to be used by the Department of Correction for the purpose of paying the salary of one additional Clerk, from July 1, 1912, to December 31, 1912, at the rate of \$900 per annum.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen requested \$450 in special revenue bonds, the proceeds to be used by the Department of Correction for the purpose of paying the salary of one additional Clerk, from July 1 to December 31, 1912, at the rate of \$900 per annum. In connection therewith I would report as follows:

The Commissioner states that the Clerk is needed on account of an increase in the work in the Bureau of Audit and Accounts, due to the installation of the new accounting system, and of an expense ledger, required by the Department of Finance.

It is proposed to fill this position on August 1, 1912, thereby making \$375 necessary to the end of the year.

I recommend the adoption of the attached resolutions granting the request to the extent of \$375, and approving the necessary schedule modification. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting the issue of special revenue bonds in the sum of four hundred and fifty dollars (\$450), the proceeds whereof to be used by the Department of Correction for the purpose of paying the salary of one additional Clerk, from July 1, 1912, to December 31, 1912, at the rate of \$900 per annum, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of three hundred and seventy-five dollars (\$375), the proceeds to be used by the Department of Correction for the purpose of paying the salary of one additional Clerk, from August 1 to December 31, 1912, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and seventy-five dollars (\$375), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the Department of Correction for the year 1912, to take effect August 1, 1912, as follows:

DEPARTMENT OF CORRECTION.
Personal Service—Administration—Audit and Accounts.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bond Fund.	Total.
237 Salaries, Regular Employees—			
General Bookkeeper and Auditor.....	\$3,000 00		\$3,000 00
Inspector	2,500 00		2,500 00
Purchasing Agent	1,800 00		1,800 00
Inspector of Repairs and Supplies.....	1,500 00		1,500 00
Clerk	2,100 00		2,100 00
Clerk	1,200 00		1,200 00
Clerk		\$900 00	900 00
Schedule total			\$13,000 00
Tax levy allowance.....			\$12,100 00
Rate of special revenue bond allowance.....			900 00
Total allowance			\$13,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

N—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of \$175.21 for the purpose of paying for certain supplies purchased by the Sheriff of Queens County from the Agent of Sing Sing Prison during 1911:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one hundred and seventy-five dollars and twenty-one cents (\$175.21), the proceeds whereof to be used by the Sheriff of Queens County for the purpose of paying for certain supplies purchased from the agent of Sing Sing Prison during 1911.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting an appropriation of \$175.21 in special revenue bonds, the proceeds to be used by the Sheriff of Queens County for the purpose of paying for certain supplies purchased from the agent of Sing Sing Prison during 1911. In connection therewith I report as follows:

The Sheriff states that there is due the Warden and Agent of Sing Sing Prison the sum of \$490.02 for jail supplies furnished to the Sheriff in 1911. He further states that he has only a balance of \$214.81 to meet the bill. The deficit in the account is, therefore, \$175.21.

In view of the foregoing, I recommend the adoption of the attached resolution granting the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of one hundred and seventy-five dollars and twenty-one cents (\$175.21), the proceeds whereof to be used by the Sheriff of Queens County for the purpose of paying for certain supplies purchased from the agent of Sing Sing Prison during 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one hundred and seventy-five dollars and twenty-one cents (\$175.21), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

O—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending the issue of \$1,907.50, for the payment of wages of per diem employees during the vacation period employed in the office of the President of the Borough of The Bronx, for the year 1912; also approval of schedule for fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand nine hundred and seven dollars and fifty cents (\$1,907.50), the proceeds whereof to be used by the President of the Borough of The Bronx for the purpose of providing funds to pay for vacation of the per diem force of said Department during the year 1912.

Adopted by the Board of Aldermen July 2, 1912, three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 2, 1912, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of \$1,907.50, for the payment of wages for the per diem force in the office of the President of the Borough of The Bronx, and who will be permitted fourteen days' leave of absence with pay as a vacation during 1912.

The request is based upon the provisions of the legislative enactment providing for vacations for per diem employees, and provides for absence of forty-eight employees at varying rates of wage.

I recommend the approval of the request in accordance with the resolutions transmitted herewith. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 2, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of one thousand nine hundred and seven dollars and fifty cents (\$1,907.50), to provide means for the payment of wages of per diem employees, during the vacation period, employed in the office of the President of the Borough of The Bronx, during the year 1912; be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York in the sum of one thousand nine hundred and seven dollars and fifty cents (\$1,907.50), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the revenue bond fund for the payment of wages for the vacation period of employees in the office of the President of the Borough of The Bronx, as follows:

PRESIDENT, BOROUGH OF THE BRONX.		
Revenue Bond Force.		
Wages, Temporary Employees:		
Stableman, at \$2.50 per day, 28 days.....		\$70 00
Foreman Hostler, at \$4 per day, 14 days.....		56 00
Hostler, at \$3 per day, 126 days.....		378 00
Laborer, at \$2.25 per day, 14 days.....		31 50
Laborer, at \$2.50 per day, 154 days.....		385 00
Assistant Foreman, at \$3.50 per day 56 days.....		196 00
Foreman, at \$4.50, 14 days.....		63 00
Laborer, at \$3 per day, 56 days.....		168 00
Watchman, at \$2.50 per day, 56 days.....		140 00
Stationary Engineer, at \$4.50 per day, 28 days.....		126 00
Fireman, at \$3 per day, 42 days.....		126 00
Bath Attendant, at \$2.50 per day, 28 days.....		70 00
Bath Attendant, at \$2 per day, 28 days.....		56 00
Cleaner, at \$1.50 per day, 28 days.....		42 00
		\$1,907 50

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

P—Resolution of the Board of Aldermen requesting the issue of \$3,800 to provide for an increase in the salary of the Chief Investigator and the salaries of five additional employees in Bellevue and Allied Hospitals, together with a report of the Comptroller recommending an issue of \$1,512.50 for the salaries of five additional employees from July 15 to December 31, 1912:
 (Referred to Comptroller March 21, 1912.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand eight hundred dollars (\$3,800), the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of meeting salaries of additional employees as follows:

Hospital Helper-Mechanic	\$600 00
Trained Nurse	800 00
Resident Physician	600 00
Stenographer	900 00
Clerk	600 00
	<hr/>
	\$3,500 00

—and also to meet the following increase in salary:
 Chief Investigator

	300 00
	<hr/>
	\$3,800 00

Adopted by the Board of Aldermen February 27, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor March 12, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On February 27, 1912, the Board of Aldermen adopted a resolution requesting \$3,800 in special revenue bonds, the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of meeting salaries of five additional employees and for an increase of \$300 per annum in the salary of the Chief Investigator. In connection therewith I report as follows:

Concerning the Hospital Helper-Mechanic, it is stated that additional machinery in the Pathological Building requires the employment of a Hospital Helper-Mechanic as Oiler.

The Medical Board of Harlem Hospital and the Trustees of Bellevue and Allied Hospitals declare that the marked growth of social service work in the Harlem Hospital requires the service of one additional Nurse, at \$800 per annum.

The grade of Resident Physician, at \$600 per annum, was established by the Board of Aldermen to compensate one of the voluntary resident internes in the alcoholic ward after a service of six months. He is to assist Dr. M. S. Gregory, Resident Alienist, who recommends that the compensation be given.

It is stated that a Clerk and Stenographer are necessary to relieve the Nurses in the alcoholic service of the clerical work of keeping card records.

The request for the establishment of the grade of Chief Investigator, at \$1,500 per annum, involves an increase of \$300 per annum. The proposed increase is not within the appropriation and, pursuant to the policy of the Board of Estimate and Apportionment, I recommend that it be not approved.

I recommend the adoption of the attached resolution approving the resolution of the Board of Aldermen with the exception of the proposed increase for the Chief Investigator. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on February 27, 1912, requesting an issue of special revenue bonds in the sum of \$3,800, the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of meeting salaries of additional employees as follows:

Hospital Helper-Mechanic.....	\$600 00
Trained Nurse.....	800 00
Resident Physician.....	600 00
Stenographer.....	900 00
Clerk.....	600 00
	<hr/>
	\$3,500 00

—and also to meet the following increase in salary:
 Chief Investigator.....

	300 00
	<hr/>
	\$3,800 00

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment (excepting the increase for the Chief Investigator) to the extent of one thousand five hundred and twelve dollars and fifty cents (\$1,512.50), to meet the proposed salaries from July 15, 1912, to December 31, 1912, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand five hundred and twelve dollars and fifty cents (\$1,512.50), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

Q—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$39,000, for the purpose of making repairs to park roadways under the jurisdiction of the Commissioner of Parks, Borough of The Bronx; all obligations to be incurred previous to December 31, 1912:

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirty-nine thousand dollars (\$39,000), the proceeds whereof to be used by the Park Commissioner of the Borough of The Bronx for the purpose of making repairs to park roadways in said Borough, all obligations contracted for hereunder to be incurred on or before December 31, 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of \$39,000, to be used by the Park Commissioner of the Borough of The Bronx for the purpose of making repairs to park roadways in said Borough. In connection therewith I report as follows:

The Commissioner states that the appropriation of \$24,600 for the expenses of road repairs has been practically exhausted, and that it will be impossible to keep the roads in even a fair state of repair unless an additional allowance is made. It is proposed to improve the park roads at an estimated cost as follows:

Crotona Park, gravel, oiled.....	\$5,500 00
Claremont Park, gravel, oiled.....	1,500 00
Botanical Garden, gravel, oiled.....	12,000 00
Bronx Park, gravel, oiled.....	5,000 00
Van Cortlandt Park, gravel, oiled.....	5,000 00
Pelham Bay Park, gravel, oiled.....	10,000 00
	<hr/>
	\$39,000 00

It is necessary that these park roads should be kept in a good state of repair and the cost of repairing being in excess of the funds available for that purpose it seems that the \$39,000 should be granted.

I recommend the adoption of the attached resolution approving the request. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of thirty-nine thousand dollars (\$39,000), the proceeds whereof to be used by the Park Commissioner of The Bronx for the purpose of making repairs to park roadways in said Borough, all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds to an amount not exceeding thirty-nine thousand dollars (\$39,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

R—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$2,200, to provide for the purchase of the necessary furniture and fixtures for the equipment of new offices for the Commissioner of Jurors, Kings County, at 383-385 Fulton street, Brooklyn:
 (Referred to the Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand two hundred dollars (\$2,200), the proceeds whereof to be used by Commissioner of Jurors for the County of Kings for the purpose of purchasing the necessary furniture and fixtures to equip the new offices of his Department at 383 and 385 Fulton street, in the Borough of Brooklyn.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting \$2,200 in special revenue bonds, for the purpose of equipping the new offices of the Commissioner of Jurors, Kings County, Nos. 383 and 385 Fulton street, Borough of Brooklyn.

The office of the President of the Borough of Brooklyn has entered into a contract for renovating the quarters of the Justices of the Supreme Court, Second Department, and to carry out this contract it will be necessary to remove the Commissioner of Jurors to the new offices in the Park Building.

The President states that it is necessary to have these furnishings and fixtures in place so that the Commissioner of Jurors can be moved and the work on the Supreme Court quarters carried out during the summer vacation, so that the new quarters for the Supreme Court will be ready for occupancy for the fall term.

I recommend the adoption of the attached resolution granting the request.

Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of and concurs in the resolution of the Board of Aldermen adopted June 11, 1912, requesting an issue of special revenue bonds in the sum of two thousand two hundred dollars (\$2,200), the proceeds whereof to be used by Commissioner of Jurors for the County of Kings for the purpose of purchasing the necessary furniture and fixtures to equip the new offices of his Department at 383 and 385 Fulton street, in the Borough of Brooklyn, and for the purpose of providing means therefor the Comptroller be and is hereby authorized pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand two hundred dollars (\$2,200), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

S—Resolution of the Board of Aldermen requesting \$22,100 for the purpose of street and park lighting during the year 1912 in the various Boroughs under the jurisdiction of the Department of Water Supply, Gas and Electricity; communication from the Deputy Commissioner of said Department relative thereto, and report of the Comptroller recommending, an issue of \$14,733 for this purpose, and also approval of schedule for fund:
 (Referred to the Comptroller May 9, 1912.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of twenty-two thousand one hundred dollars (\$22,100), the proceeds whereof to be used by the Department of Water Supply, Gas and Electricity for the purpose of street and park lighting, during 1912, divided among the various Boroughs as follows:

Manhattan and The Bronx.....	\$5,000 00
Brooklyn.....	5,500 00
Queens.....	8,000 00
Richmond.....	3,600 00
	<hr/>
	\$22,100 00

This appropriation to be utilized in such a way that the cost of this lighting for the year 1913 will not exceed double the amount of the cost for the year 1912.

Adopted by the Board of Aldermen April 16, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor April 30, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park row, City of New York, July 2, 1912.

Hon. DOUGLAS MATHEWSON, Deputy Comptroller, Department of Finance, New York City:

Sirs—This Department asked the Board of Aldermen in March for additional funds for street lighting to be installed in 1912, and the Board voted revenue bonds for the following amounts:

Manhattan and The Bronx.....	\$5,000 00
Brooklyn.....	5,500 00
Queens.....	8,000 00
Richmond.....	3,600 00
	<hr/>
	\$22,100 00

At this time in these Boroughs we had about the following funds available, assuming that the funds for Public Building Lighting were also replenished:

Manhattan and The Bronx.....	\$28,608 00
Brooklyn.....	13,522 00
Queens.....	5,804 90
Richmond.....	1,711 83
	<hr/>
	\$49,646 73

These amounts were saved by shutting down on new lighting after October 1, when the Board of Estimate and Apportionment declined to make appropriation in 1911 for new lighting in the budget for 1912.

The annual request for lighting from taxpayers, the usual development of the improved system of lighting streets in the various Boroughs, as well as certain commitments to taxpayers uncompleted from last year would amount to the following, if all the requests, etc., were allowed for 1912:

Manhattan and The Bronx.....	\$53,000 00
Brooklyn	23,000 00
Queens	20,000 00
Richmond	5,000 00
	\$101,000 00

These amounts are based on the burning of these lights in 1912 for periods from three to five months only.

If this amount was expended in 1912 and the lights put in service, the result on the expense of 1913, allowing for delays, uncompleted work and omissions, due to the burning of these lights during the whole of that year, would be a charge upon the budget of 1913 of about \$160,000 for the five Boroughs. This is larger than it should be.

In consequence we are asking for only such sums as will bring the funds for 1912 for street lighting to the following amounts:

Manhattan and The Bronx.....	\$33,000 00
Brooklyn	19,000 00
Queens	15,000 00
Richmond	3,500 00
	\$70,500 00

This expenditure in 1912 would mean an addition to the expense of 1913 of about \$100,000 for the Greater City. The average increase each year for the five Boroughs, taken for the last five years, has been \$133,700 a year. You will see that we are asking considerably less this year because of the decreased time of installation on account of the Borough President's regulations as to opening streets.

The Aldermen have already voted these funds, but the Board did not pass same. We would ask, therefore, that this matter be considered anew on this application. You will note the application has been decreased by \$1,500 in Richmond since our first request, owing to about two months delay in lighting the St. George Terminal.

A moment's thought will show that the later in the year lights are added, a larger number can be installed for the same amount of money in one year, for the reason that they burn a shorter time; but in the succeeding year they burn for twelve months and the expense for that year is greatly increased.

The Chief Engineer fears there is an impression in your Department that this Department adds lights late in the year in order to get more lights in without notice to your Department or the Board of the effect on the succeeding year. This I wish to deny. The tax payers require the addition of a certain number of lights each year. We try to install these lights as early in the season as we can. We cannot do so however if the question of funds available is unsettled as it was this year.

The season for installing new lighting is from May 1 to November 1, and for issuing order to about October 1. The companies must be notified early in the year that the Department has funds for a certain number of lamps, which will be ordered, so that they can provide the necessary equipment. The manufacture of this takes two to four months, depending on the number.

The companies this year knew that our funds were low and in an unsettled condition, and have provided comparatively a small equipment, and, to date, we could not advise them to provide more.

For the above practical reasons this year the lights added will average less time in service than is usual. It appears it is clear this is not the fault of the Department. If we knew what funds we were really to have, we could average a lighting service of about five months in a given year and arrange our business much better than as at present.

I attach lists of lights required by the tax payers and by the growth of the City. It is very difficult to segregate just what streets will be covered by the additional funds we ask. As the lists exceed the amount we ask, certain proposed lighting cannot be installed.

As the time is getting short and the Board of Estimate and Apportionment adjourns very soon, I would request your early action in this matter, for if the granting of funds is delayed until fall it will be too late to utilize them this year. Otherwise, as you can see, we must stop adding lights in Queens soon and shortly after in Brooklyn and Manhattan and The Bronx. We can do nothing in Richmond, as the present balance will not meet the new lighting required for the terminal improvements at St. George alone.

The Department would be glad to give you any additional information you desire in this matter, and would be glad to be heard on it when you take it up for final disposal. Yours very truly,

J. W. F. BENNETT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 2, 1912, the Commissioner of Water Supply, Gas and Electricity requested further consideration in the matter of special revenue bonds for additional street and park lighting during the current year.

In a report to your Board under date of May 28, 1912, I stated, in part, as follows:

On April 16, 1912, the Board of Aldermen adopted a resolution requesting \$22,100 in special revenue bonds to be used by the Department of Water Supply, Gas and Electricity for the purpose of street and park lighting during 1912, divided among the various Boroughs as follows:

Manhattan and The Bronx.....	\$5,000 00
Brooklyn	5,500 00
Queens	8,000 00
Richmond	3,600 00
	\$22,100 00

The resolution provides that the appropriation is to be utilized in such a way that the cost of this lighting for the year 1913 will not exceed double the amount of the cost for the year 1912.

The 1912 Budget provided \$3,350,145.46 for street and park lighting in the several Boroughs, apportioned as follows:

Account No.	Borough.	Amount.
528	Manhattan and The Bronx.....	\$1,534,798 09
529	Brooklyn	1,105,005 26
530	Queens	510,205 28
531	Richmond	200,136 93
	Total.....	\$3,350,145 56

In his request for special revenue bonds to the Board of Aldermen, under date of March 6, 1912, the Commissioner of Water Supply, Gas and Electricity stated the following in reference to these accounts:

"No. 528, Street and Park Lighting, Boroughs of Manhattan and The Bronx, \$5,000. This, with the amount we have on hand, \$28,608, will give an amount much less than that required for new street lighting in past years. The fact that we have \$28,000 on hand in this Borough is that as soon as it became known that the Board of Estimate intended cutting off all the appropriations, we immediately stopped all orders for new lamps that we could, on account of their effect on the expenses of the year following that in which they are put in."

No. 529, Street and Park Lighting, should be increased by \$5,500, which, with the \$13,522 we have on hand, will give us \$19,000. This is much less than the average increase in the street lighting in Brooklyn for the last three years. This balance of \$13,522 was derived on account of stopping orders in 1911.

No. 530, Street and Park Lighting. The balance available for new lighting for 1912 is \$5,804.09. This amount will not be sufficient to meet requests now made on us for new lighting in streets, and I would request that this be in-

creased to \$10,000, of which \$2,000 can be obtained by transfer from No. 534, Public Building Lighting in this Borough, making the net amount to be covered by revenue bonds \$8,000, and giving us available funds of \$15,804.

No. 531, Street and Park Lighting. The cost of lighting for 1912 with the present number of lights burning will be \$198,425.10. The appropriation for 1912 is \$200,136.93. The increased lighting on account of the probable opening of the St. George terminal, about July 1, will require funds to the extent of \$4,240, and, in addition to this, another \$1,000 should be provided for general lighting. I would request therefore that this account be increased by \$3,600, the balance being made up by the \$1,711.95 we have now in the appropriation.

It appears from the Commissioner's statement that the total amount now available for new street and park lighting in 1912 is approximately \$49,646. The additional \$22,100 requested by the Board of Aldermen will increase the amount to \$71,746, or approximately 2 1/2 per cent. over the cost of all lights burning on January 1, 1912.

The Chief Engineer of Light and Power states that on account of the anticipated deficit in the 1912 appropriation for Lighting Public Buildings, the present excess in the appropriations for Street and Park Lighting has been reserved for the transfers that may be necessary to the deficient accounts. He also states that no additional lights have been installed since January 1, pending the action of the Board of Aldermen and Board of Estimate and Apportionment on the request for special revenue bonds to cover the deficit in the allowance for lighting public buildings. This action has resulted in numerous complaints from property owners to the Commissioner and to the Comptroller.

The \$49,646 now available for new street and park lighting in 1912 has been available since January 1, 1912. It was appropriated for lights in City streets and in the parks. No good reason has since been given to explain why some part of this appropriation has not already been used for new lights,

and recommended that the request of the Board of Aldermen be not approved.

In connection with the present request, the Chief Engineer of Light and Power has submitted a list showing in detail "the more urgent requests" for new lights in 1912, amounting to \$83,234.32; and also a memorandum of the orders recently issued against the unencumbered balance of \$49,646, previously referred to, as follows:

In the Boroughs of Manhattan and The Bronx, orders have been issued for 408 arc lamps, 93 incandescent lamps and 87 gas lamps, aggregating a cost in 1912 of \$15,802.53. These orders have been issued within the last three weeks, and orders covering the balance of the funds will probably issue during the rest of this month.

In the Borough of Brooklyn the orders already issued will exhaust about \$7,000 of the \$13,600 at hand, and the orders still to go out this month will undoubtedly cover most of the balance.

In the Borough of Queens, orders involving an expenditure of \$4,800 have been issued out of the \$5,800 to date, and the balance will be exhausted at least within ten days.

In the Borough of Richmond, the balance at hand, \$1,711, will be more than used up in 1912, on account of the additional lights for the St. George Terminal, which were ordered in 1911, and reordered in 1912. In consequence, if these funds must be reserved for liability, we have no funds with which to install additional lights in Richmond.

It appears, therefore, that the available balance for new lights to be installed during 1912 will be practically exhausted during the present month.

In his present request the Commissioner has revised his estimate of the amounts required for the several Boroughs, as follows:

	Manhattan and The Bronx.	Brooklyn.	Queens.	Richmond.	Total.
Original unencumbered balance	\$28,608 00	\$13,522 00	\$5,804 90	\$1,711 83	\$49,646 73
To be provided by transfer.....			2,000 00		
Special revenue bonds requested	5,000 00	5,500 00	8,000 00	3,600 00	22,100 00
Total	\$33,608 00	\$19,022 00	\$15,804 90	\$5,311 83	\$73,746 73
Revised estimates	33,000 00	19,000 00	15,000 00	3,500 00	70,500 00
Decrease	\$608 00	\$22 00	\$804 90	\$1,811 83	\$3,246 73

On this basis of the revised estimates the amount of special revenue bonds required is therefore decreased by approximately \$3,247, or a net total of \$18,853, apportioned as follows:

Boroughs.	Amount.
Manhattan and The Bronx.....	\$4,392 00
Brooklyn	5,478 00
Queens	7,195 00
Richmond	1,788 00
Total	\$18,853 00

The Commissioner states that the expenditure of \$70,500 for new lights in 1912

Would mean an addition to the expense of 1913 of about \$100,000 for the Greater City. The average increase each year for the five Boroughs, taken for the last five years, has been \$133,700 a year. You will see that we are asking considerable less this year because of the decreased time of installation on account of the Borough President's regulations as to opening streets. The season for installing new lighting is from May 1 to November 1, and for issuing orders to about October 1. The companies must be notified early in the year that the Department has funds for a certain number of lamps, which will be ordered, so that they can provide the necessary equipment. The manufacture of this takes two to four months, depending on the number.

The Commissioner also states that the companies, knowing the small amount available for new lighting, have provided for only a small additional equipment, and that if the granting of additional funds is delayed until the fall it will be too late to utilize them this year; and adds:

We must stop adding lights in Queens soon, and shortly after in Brooklyn, Manhattan and The Bronx. We can do nothing in Richmond, as the present balance will not meet the new lighting required for the terminal improvements at St. George alone.

From the Commissioner's statement it appears that the average time of burning for the new lights to be installed from the funds requested by the Board of Aldermen may be assumed as not over four months. From the provisions of the resolution the total cost of these lights for 1913 must not exceed double the \$22,100 requested, or \$44,200. At the rate of \$44,200 per annum the cost for four months would be \$14,733. As the full amount of the revised request will be apparently required in Richmond, the \$14,733 may be apportioned as follows:

Manhattan and The Bronx.....	\$3,340 00
Brooklyn	4,110 00
Queens	5,495 00
Richmond	1,788 00
	\$14,733 00

I therefore recommend the adoption of the attached resolution approving of the request to the amount of \$14,733 and modifying the existing schedules in conformity therewith. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 16, 1912, requesting an issue of special revenue bonds in the sum of twenty-two thousand one hundred dollars (\$22,100), the proceeds whereof to be used by the Department of Water Supply, Gas and Electricity for the purpose of street and park lighting during the year 1912, divided among the various Boroughs as follows:

Manhattan and The Bronx.....	\$5,000 00
Brooklyn	5,500 00

Queens	8,000 00
Richmond	3,600 00
	\$22,100 00

—this appropriation to be utilized in such a way that the cost of this lighting for the year 1913 will not exceed double the amount of the cost for the year 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of fourteen thousand seven hundred and thirty-three dollars (\$14,733), apportioned as follows:

Manhattan and The Bronx.....	\$3,340 00
Brooklyn	4,110 00
Queens	5,495 00
Richmond	1,788 00
	\$14,733 00

—and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fourteen thousand seven hundred and thirty-three dollars (\$14,733), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedules, as revised, for the Department of Water Supply, Gas and Electricity for the year 1912, to be effective as of July 11, 1912, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.	
<i>Special Contract Obligations—illumination, Power and Heat Control—illumination and Power Service.</i>	
528 Street and Park Lighting (Manhattan and The Bronx)—	
Tax Levy Allowance.....	\$1,534,798 09
Special Revenue Bond Allowance.....	3,340 00
Total Allowance	\$1,538,138 09
529 Street and Park Lighting (Brooklyn)—	
Tax Levy Allowance.....	\$1,105,005 26
Special Revenue Bond Allowance.....	4,110 00
Total Allowance	\$1,109,115 26
530 Street and Park Lighting (Queens)—	
Tax Levy Allowance.....	\$510,205 28
Special Revenue Bond Allowance.....	5,495 00
Total Allowance	\$515,700 28
531 Street and Park Lighting (Richmond)—	
Tax Levy Allowance.....	\$200,136 93
Special Revenue Bond Allowance.....	1,788 00
Total Allowance	\$201,924 93

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

T—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$5,400 for the purpose of meeting an anticipated deficit in the appropriation account for the Department of Public Charities for the year 1912, "No. 651, Forage, Maintenance and Operation, Manhattan and The Bronx," all obligations to be incurred hereunder previous to December 31, 1912:
(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five thousand four hundred dollars (\$5,400), the proceeds whereof to be used by the Department of Public Charities for the purpose of meeting an estimated deficit in the appropriation account for the current year, known as No. 651, Forage, Manhattan and The Bronx, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 4, 1912, three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor June 28, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 4, 1912, the Board of Aldermen requested \$5,400 in special revenue bonds, the proceeds to be used by the Department of Public Charities for the purpose of meeting an estimated deficit in the 1912 Budget appropriation, No. 651, Forage, Maintenance and Operation, Manhattan and The Bronx. In connection therewith I report as follows:

The appropriation for No. 651 was \$8,800. The liability incurred to June 30, 1912, was \$9,499.21, divided as follows:

Contracts	\$8,239 00
Open Market Orders.....	1,260 21
	\$9,499 21

The allowance for 1912 was based upon the price paid for forage and the number of horses in use during the year 1911. The contract prices paid during the present year for oats, straw and hay are greatly in excess of those paid in 1911, as shown in the following table:

	Price, 1911.	Price, 1912.	Increase.
Oats	\$0.435 per bushel.	\$0.64 per bushel.	47 per cent.
Straw .....	.0064 per pound.	.0117 per pound.	82 per cent.
Hay .....	.0117 per pound.	.0154 per pound.	31 per cent.

The expense has been further increased through the increase in the number of horses in use from 61 to 75, distributed as follows:

	1911.	1912.
Blackwells Island	35	46
Randalls Island	19	22
Manhattan	7	7
	61	75

The Department estimates that the increased cost due to the two causes noted will be \$5,982, as follows:

	1911.		1912.		Increased Cost.
	Quantity.	Cost.	Quantity.	Cost.	
Oats	9,400 bushels.	\$4,089 00	11,700 bushels.	\$7,488 00	\$3,399 00
Straw	37,000 pounds.	236 80	45,000 pounds.	526 50	289 70
Hay	291,000 pounds.	3,404 70	370,000 pounds.	5,698 00	2,293 30
		\$7,730 50		\$13,712 50	\$5,982 00

The total increase is made up as follows:	
Due to increase of quantity purchased.....	\$1,976 00
Due to advance in prices.....	4,006 00
	\$5,982 00

It is stated that the increased acreage for hay at Randalls Island will reduce the amount of the deficit by approximately \$500.

I recommend the adoption of the attached resolution approving the request.
Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 4, 1912, and approved by the Mayor June 28, 1912, requesting an issue of special revenue bonds in the sum of five thousand four hundred dollars (\$5,400), the proceeds to be used by the Department of Public Charities for the purpose of meeting an estimated deficit in the appropriation account for the current year, known as No. 651, Forage, Maintenance and Operation, Manhattan and The Bronx, all obligations contracted for hereunder to be incurred before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue revenue bonds of The City of New York to an amount not exceeding five thousand four hundred dollars (\$5,400), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

U—Resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$50,000, for the purpose of meeting anticipated deficits in sundry accounts of the Department of Public Charities for the year 1912:
(Referred to Comptroller June 27, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of fifty thousand dollars (\$50,000), the proceeds whereof to be used by the Department of Public Charities, for the purpose of meeting anticipated deficits in sundry accounts, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Approved by the Mayor June 24, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen requested \$50,000 in special revenue bonds to be used by the Department of Public Charities in meeting anticipated deficits in sundry accounts for the year 1912, all obligations contracted for hereunder to be incurred before December 31, 1912. In connection therewith I report as follows:

On May 24, 1912, the Commissioner of Public Charities applied to the Board of Aldermen for \$178,800 in special revenue bonds to replenish sundry accounts in his Department for the year 1912. The request was approved to the extent of \$50,000 to provide for present needs. The Commissioner requests that this amount be applied to the following accounts:

626 Supplies and Materials, Maintenance and Operation, General, Manhattan and The Bronx.....	\$43,150 00
632 Supplies and Materials, Maintenance and Operation, Repairs and Replacements by Departmental Labor, Richmond.....	2,000 00
642 Maintenance, Repairs and Storage of Automobiles, Maintenance and Operation, Manhattan and The Bronx.....	2,000 00
646 Shoeing and Boarding Horses, including Veterinary Service, Maintenance and Operation, Brooklyn and Queens.....	700 00
653 Forage, Maintenance and Operation, Richmond.....	500 00
670 Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, except Automobiles, Maintenance and Operation, Manhattan and The Bronx.....	1,000 00
672 Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, except Automobiles, Maintenance and Operation, Richmond	500 00
675 Purchase of Furniture and Fittings, Maintenance and Operation, Richmond	150 00

The appropriation for No. 626 was \$966,500. The liabilities incurred to June 30 amounted to \$925,842.94, leaving an unencumbered balance of \$40,657.06. To meet the increased cost for 1912, due to advance in prices and increased census, the Department estimates that additional funds to the amount of \$92,250 will be required, of which \$43,150 is requested at this time.

The appropriation for No. 632 was \$4,500. The liability incurred to June 30 was \$4,830.40, showing a deficit of \$330.40. The Superintendent of the Farm Colony estimates the total amount to be expended at \$8,500, due principally to the purchase of material for the construction of a stable building by departmental labor. To meet the increased expenditure, \$2,000 is requested at this time.

The appropriation for No. 642 was \$5,450. Liabilities amounting to \$5,786.12 were incurred to June 30, making a deficit of \$336.12. To provide for this deficit and estimated expenditures for the balance of the year, \$2,000 is requested.

The appropriation for No. 646 was \$400. The liability to June 30 amounted to \$390.63, leaving a balance of \$9.37. The sum of \$700 is requested for the balance of the year.

The appropriation for No. 653 was \$1,900. The unencumbered balance on June 30 was \$12.07. The increased cost of forage calls for additional funds to the amount of \$500.

The appropriation for No. 670 was \$5,000, against which liabilities of \$5,087.62 have been charged. The Commissioner requests \$1,000 to meet the present deficit of \$87.62 and the needs of the balance of the year.

The appropriation for No. 672 was \$657.50. The liability incurred to June 30 was \$685.30, making a deficit of \$27.80. To provide for new harness, farm implements, etc., it is estimated that an additional sum of \$500 will be required.

The amount appropriated for No. 675 was \$200. There is a present deficiency of \$8.80. The sum of \$150 is requested to replenish the account.

I recommend the adoption of the attached resolution granting the request.
Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, and approved by the Mayor June 24, 1912, requesting an issue of special revenue bonds in the sum of fifty thousand dollars (\$50,000), the proceeds whereof to be used by the Department of Public Charities for the purpose of meeting anticipated deficits in sundry accounts, all obligations contracted for hereunder to be incurred before December 31, 1912, as follows:

Supplies and Materials, Maintenance and Operation, General:	
626 Manhattan and The Bronx	\$43,150 00
Repairs and Replacements by Departmental Labor:	
632 Richmond	\$2,000 00
Maintenance, Repairs and Storage of Automobiles, Maintenance and Operation:	
642 Manhattan and The Bronx	\$2,000 00
Shoeing and Boarding Horses, including Veterinary Service, Maintenance and Operation:	
646 Brooklyn and Queens	\$700 00
Forage, Maintenance and Operation:	
653 Richmond	\$500 00

Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, except Automobiles, Maintenance and Operation:	
670 Manhattan and The Bronx	\$1,000 00
672 Richmond	500 00
Purchase of Furniture and Fittings, Maintenance and Operation:	
675 Richmond	\$150 00

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifty thousand dollars (\$50,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

V. The resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$24,100 for the purpose of making alterations and for providing additional book racks for the office of the Register of Kings County, said work to be done under the jurisdiction of the President of the Borough of Brooklyn, and all obligations to be contracted for previous to December 31, 1912, no contracts to be awarded, however, until plans, specifications and estimates of cost for all the work have been approved by this Board, were laid over for the meeting to be held September 19, 1912.

The Secretary presented the following resolutions (14) of the Board of Aldermen requesting issues of special revenue bonds (subdivision 8, section 188 of the Charter) in the following amounts and for the following purposes:

A—\$100,000, for the purpose of replenishing the Budget appropriation made to the President of the Borough of Manhattan for the year 1912 for repairs to asphalt pavements;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one hundred thousand dollars (\$100,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of replenishing the Budget appropriation, Line No. 1831, for the repair of asphalt pavements in the Borough of Manhattan, all expenditures contracted for hereunder to be incurred on or before December 31, 1912.

Adopted by the Board of Aldermen July 2, 1912, three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor July 9, 1912.

P. J. SCULLY, Clerk.

B—\$10,000, to meet a deficit in the appropriation made for the Bureau of Highways, Borough of Manhattan, for the year 1912, for materials for repairs and replacements by departmental labor;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand dollars (\$10,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of replenishing Budget appropriation for 1912, for materials for repairs and replacements by departmental labor in the Bureau of Highways in the Borough of Manhattan.

Adopted by the Board of Aldermen July 2, 1912, three-fourths of all the members elected voting in favor thereof.

Approved by the Mayor July 9, 1912.

P. J. SCULLY, Clerk.

C—\$500, for the maintenance of an automobile in the office of the Chief of the Bureau of Licenses, Mayor's office, for the remainder of the year 1912;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five hundred dollars (\$500), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purpose of additional means for maintenance of auto during the remainder of the year 1912.

Adopted by the Board of Aldermen June 1, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

D—\$1,800, for the wages of additional help for new quarters occupied by the Department of Health, from July 1 to December 31, 1912:

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand eight hundred dollars (\$1,800), the proceeds whereof to be used by the Department of Health for the purpose of paying wages of additional help required to care for new quarters occupied by said Department, from July 1 to December 31, 1912, inclusive.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

E—\$37,415, for the purpose of constructing vault, alterations, repairs, purchase of equipment, etc., in the building located on the southwest corner of Centre and Walker streets, under the jurisdiction of the Department of Health, provided that the plans and specifications for said work be approved by this Board, or by the Comptroller, during the summer recess.

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirty-seven thousand four hundred and fifteen dollars (\$37,415), the proceeds whereof to be used by the Department of Health for the purpose of constructing vault, alterations, repairs, purchase of equipment, etc., in the building located on the southwest corner of Centre and Walker sts., Borough of Manhattan, occupied by said Department, as follows:

Constructing fireproof vault.....	\$4,315 00
Electric book lifts.....	2,250 00
Cutting doorways and stairways.....	950 00
Constructing partitions.....	3,000 00
Electric wiring and fixtures.....	8,000 00
Installing chemical and diagnosis laboratories.....	7,500 00
Alterations to plumbing.....	1,000 00
Finishing wood floors.....	2,250 00
Window shades.....	900 00
Painting and lettering.....	1,000 00
Repairing old equipment and purchase of new equipment.....	5,000 00
Time clock, watchman's clock and call bells.....	1,000 00
Architect's services.....	250 00
	\$37,415 00

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

F—\$600, for the purpose of paying the salary of a Laundry Manager, from July 1 to December 31, 1912, in Bellevue and Allied Hospitals;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of six hundred dollars (\$600), the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals, for the purpose of paying salary of a Laundry Manager, at the rate of \$1,200 per annum, from July 1 to December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

G—\$10,200, for the expense of equipping The Bronx offices of the Receiver of Taxes and of the Bureau for the Collection of Assessments and Arrears in the Department of Finance:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand two hundred dollars (\$10,200), the proceeds whereof to be used by the Department of Finance for the purpose of furnishing and equipping branch offices of the Receiver of Taxes and the Bureau for Collection of Assessments and Arrears in building situated at the southeast corner of Tremont avenue and Arthur avenue, Borough of The Bronx, all obligations contracted for hereunder to be incurred on or before December 31, 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912.

P. J. SCULLY, Clerk.

H—\$10,000, for the employment of Laborers by the Department of Health for exterminating mosquito-breeding places and destroying marshes in the Borough of Richmond, also for one auto truck for transportation of oil and Laborers, and the salary of the Chauffeur and for other contingent expenses incidental to said work, and communication of the Health Officer of the Port of New York relative thereto;

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand dollars (\$10,000), the proceeds whereof to be used by the Board of Health of the Department of Health for the purpose of employing Laborers for draining marshes and destroying mosquito-breeding places in the Borough of Richmond; auto truck for the transportation of oil and Laborers, and necessary contingent expenses, as follows:

20 Laborers for draining marshes and oiling temporary inland collections of water, at \$55 per month, for four months.....	\$4,400 00
2 Laborers to act as Foremen, at \$65 per month, for four months.....	520 00
1 Chauffeur, at \$100 per month, for four months.....	400 00
1 auto truck for oil and Laborers.....	3,500 00
Contingent expenses.....	1,180 00
	\$10,000 00

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912.

P. J. SCULLY, Clerk.

State of New York, Health Officers' Department, Rosebank, N. Y., July 10, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, President, Board of Estimate and Apportionment, City Hall, New York City

Sir—At the meeting on Tuesday the Board of Aldermen adopted, at the urgent request of the Board of Health, a resolution requesting your body to authorize the Comptroller to issue special revenue bonds to the extent of ten thousand dollars (\$10,000), the proceeds to be used in mosquito extermination work in the Borough of Richmond. Unless this matter is passed upon by your Board at the next meeting, I understand that it will have to go over until after the summer vacation period, and this will render nugatory a great deal of work that has been done in the direction of freeing this Borough from mosquitoes, for the benefit not only of the Borough of Richmond but of the neighboring Boroughs.

The Borough of Richmond, because of its topographical conditions, offers in its extensive marshes and numerous natural drainage pockets, favorable breeding ground for mosquitoes. Westerly winds carry such mosquitoes across the bay in large numbers and their reproduction in the Borough of Brooklyn causes an extension of the nuisance and danger to the neighboring Boroughs.

The work was begun here some years ago and a force of men as high as forty at times was employed intelligently and effectively. This year because of the fact probably that there was a change in the position of Health Officer of the Port, under whose direction the work in this Borough was instituted and has always been carried out, steps were not taken at the proper time and the oil with which a good deal of the exterminating work is done was not delivered until a month after the date upon which it is usually delivered here. This, together with the exceptionally rainy conditions in the early spring and the consequent saturation of the soil, made the summer's work exceedingly difficult. The Health Officer, as the agent of the Board of Health, was further hampered by reason of the fact that the number of men employed had been reduced to eight (8).

It was found that only the utmost activity would prevent loss of all the benefits accrued from years of work in this direction, and after consultation with the other members of the Board of Health a resolution was formulated and adopted requesting an issue of special revenue bonds. I attach hereto a copy of the communication addressed to the Board of Health giving in detail the purposes for which the money is to be employed.

In view of these circumstances I respectfully request unanimous consent of the Board for the consideration of the resolution of the Board of Aldermen, already referred to, at the forthcoming meeting. Yours very respectfully,

JOSEPH J. O'CONNELL, Health Officer, Port of New York.

I—\$3,500, for alterations to the buildings Nos. 57 and 59 Centre street, for the use of the Bureau of Licenses, Mayor's Office:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand five hundred dollars (\$3,500), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purpose of making the necessary changes to the building known as 57-59 Centre st., Manhattan, which has been leased by the City for the Bureau of Licenses, and for new furniture to be installed therein.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912.

P. J. SCULLY, Clerk.

J—\$4,000, for the purpose of furnishing and equipping premises at No. 207 East 32d street, Manhattan, for the 4th District Municipal Court, under the jurisdiction of the President of the Borough of Manhattan:

In the Board of Aldermen.

Resolved, That the following resolution, adopted by the Board of Aldermen February 27, 1912, and received from his Honor the Mayor March 12, 1912, without his approval or disapproval thereof:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four thousand dollars (\$4,000), the proceeds whereof to be used by the Justices of the Fourth District Municipal Court for

the purpose of equipping and furnishing the premises at 207 E. 32d street, in the Borough of Manhattan, for the uses of said Fourth District Municipal Court."—be and the same is hereby amended by striking therefrom the words "Justices of the Fourth District Municipal Court" and inserting in lieu thereof the words "President of the Borough of Manhattan."

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

K—\$23,581.61, for the payment of rent of property under lease to the City and used by the Justices of the Supreme Court, First Department, in building Nos. 43-51 Chambers street:

In the Board of Aldermen.

Resolved, That, in pursuance of subdivision 8, section 188, of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of \$23,581.61, the proceeds whereof to be used by the Comptroller for the payment of rent upon property under lease to The City of New York from May 15, 1912, to December 31, 1912, in the amount of \$21,000, and also from June 15, 1912, to December 31, 1912, in the sum of \$2,581.61, for use of the Justices of the Supreme Court of the State of New York, First Department, in the County of New York.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

L—\$1,680, for the wages of substitute Engineers and Firemen, to take the place of regular employees, in the Department of Bellevue and Allied Hospitals, during the vacation period;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand six hundred and eighty dollars (\$1,680), the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of providing means for the payment of wages of Engineers and Firemen to be appointed during the vacation period of the regular force, all obligations contracted for hereunder to be incurred before December 31, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

M—\$250 to provide for increasing the salary of Frederick Richter, Clerk in the office of the City Clerk, from July 1, 1912;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and fifty dollars (\$250), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increase in salary of Frederick Richter, Clerk, for the remainder of the year 1912, beginning July 1, advanced from \$1,750 to \$2,250 per annum.

Adopted by the Board of Aldermen June 4, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

N—\$250 to provide for increasing the salary of John J. Flaherty, Clerk in the office of the City Clerk, from July 1, 1912;

(Referred to Comptroller July 11, 1912.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and fifty dollars (\$250), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting an increase in the salary of John J. Flaherty, Clerk, for the remainder of the year 1912, beginning July 1, advanced from \$2,000 to \$2,500 per annum.

Adopted by the Board of Aldermen June 4, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Together with the following report of Comptroller recommending:

A—\$100,000 for the purpose of replenishing the Budget appropriation made to the President of the Borough of Manhattan for the year 1912 for repairs to asphalt pavements;

B—\$10,000 to meet a deficit in the appropriation made for the Bureau of Highways, Borough of Manhattan, for the year 1912, for materials for repairs and replacements by departmental labor;

C—\$500 for the maintenance of an automobile in the office of the Chief of the Bureau of Licenses, Mayor's Office, for the remainder of the year 1912;

D—\$1,800, for the wages of additional help for new quarters occupied by the Department of Health, from July 1 to December 31, 1912;

E—\$37,415 for alterations, constructing vault, repairs, purchase of equipment, etc., in the building on the southwest corner of Centre and Walker streets, occupied by the Department of Health, the plans and specifications for same to be approved by the Board, or the Comptroller if submitted during the recess of the Board;

F—\$500, for the purpose of paying the salary of a Laundry Manager, from August 1 to December 31, 1912, in Bellevue and Allied Hospitals;

G—\$10,200 for the expense of equipping The Bronx offices of the Receiver of Taxes and of the Bureau for the Collection of Assessments and Arrears in the Department of Finance;

H—\$5,925 for the employment of Laborers by the Department of Health for exterminating mosquito breeding places and destroying marshes in the Borough of Richmond, also for one auto truck for transportation of oil and Laborers, and the salary of the Chauffeur for two and one-half months, and for other contingent expenses incidental to said work;

I—\$3,500 for alterations to the building Nos. 57 and 59 Centre street, for the use of the Bureau of Licenses, Mayor's Office;

J—\$4,000 for the purpose of furnishing and equipping premises at No. 207 East 32d street, Manhattan, for the 4th District Municipal Court, under the jurisdiction of the President of the Borough of Manhattan;

K—\$23,581.61 for the payment of rent of property under lease to the City and used by the Justices of the Supreme Court, First Department, in building Nos. 43-51 Chambers street;

L—\$1,680 for the wages of substitute Engineers and Firemen, to take the place of regular employees in the Department of Bellevue and Allied Hospitals during the vacation period;

M—That the request of the Board of Aldermen for the issue of \$250 special revenue bonds to provide for increasing the salary of John J. Flaherty, Clerk in the office of the City Clerk, from July 1, 1912, be denied, for the reason that the policy of the Board prohibits all salary increases except such as can be made within the Budget appropriation and in accordance with the resolutions governing the budget;

N—That the request of the Board of Aldermen for the issue of \$250 special revenue bonds to provide for increasing the salary of Frederick Richter, Clerk in the office of the City Clerk, from July 1, 1912, be denied, for the reason that the policy of the Board prohibits all salary increases except such as can be made within the Budget appropriation and in accordance with the resolutions governing the budget;

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—I transmit herewith a report on resolutions of the Board of Aldermen requesting issues of revenue bonds as follows:

1. One hundred thousand dollars for replenishing the Budget appropriation No. 1831, for the repair of asphalt pavements in the Borough of Manhattan.

2. Ten thousand dollars for replenishing the Budget appropriation for 1912 for materials for repairs and replacements by departmental labor in the Bureau of Highways, in the Borough of Manhattan.

3. Five hundred dollars for the maintenance of an automobile in the office of the Chief of the Bureau of Licenses, Mayor's office, for the remainder of the year 1912.

4. One thousand eight hundred dollars for the wages of additional help for the new quarters occupied by the Department of Health from July 1 to December 31, 1912.

5. Thirty seven thousand four hundred and fifteen dollars for making alterations, constructing vault, repairs, purchase of equipment, etc., in the building on the southwest corner of Centre and Walker streets, occupied by the Department of Health.

6. Two hundred and fifty dollars for making an increase in the salary of John J. Flaherty, Clerk, in the office of the City Clerk and Clerk of the Board of Aldermen for the remainder of the year 1912.

7. Two hundred and fifty dollars for increasing the salary of Frederick Richter, Clerk, in the office of the City Clerk and Clerk of the Board of Aldermen for the remainder of the year 1912.

8. Six hundred dollars for the Trustees of Bellevue and Allied Hospitals to pay the salary of a Laundry Manager at the annual rate of \$1,200, from July 1 to December 31, 1912.

9. One thousand six hundred and eighty dollars to be used by the Trustees of Bellevue and Allied Hospitals for the payment of the wages of Engineers and Firemen to take the place of regular employees during the vacation period.

10. Ten thousand two hundred dollars to meet the expense of equipping the Bronx office of the Receiver of Taxes and of the Bureau for Collection of Assessments and Arrears in the Department of Finance.

11. Ten thousand dollars to be used by the Board of Health for employing Laborers for exterminating mosquito breeding places and destroying marshes in the Borough of Richmond, also for an auto truck for the transportation of oil and Laborers and other necessary contingent expenses.

12. Three thousand five hundred dollars for making necessary changes to the building at Nos. 57 and 59 Centre street, in the office of the Bureau of Licenses, The Mayoralty, and for the purchase of new furniture to be installed therein.

13. Four thousand dollars to be used by the President of the Borough of Manhattan for equipping and furnishing the premises at No. 207 East 32d street, in the Borough of Manhattan, for the use of the 4th District Municipal Court.

14. Twenty-three thousand five hundred and eighty-one dollars and sixty-one cents to be used by the Comptroller for the payment of rent upon property under lease to The City of New York, from May 15, 1912, to December 31, 1912, and from June 15, 1912, to December 31, 1912, for use of the Justices of the Supreme Court of the State of New York, First Department, in the County of New York.

The resolutions requesting these issues in special revenue bonds were adopted by the Board of Aldermen so recently that most of them have not yet been officially referred to the Comptroller. Because the meeting of Monday, July 15, 1912, is to be the last meeting of the Board of Estimate until September 19, 1912, I have secured copies of the resolutions of the Board of Aldermen and have had investigations made to determine upon the need for the requested revenue bonds. In the limited time at my disposal I have not been able to prepare a detailed report upon each of these requests.

The request for \$100,000 in special revenue bonds for replenishing the Budget appropriation for the repairing of asphalt pavements in the Borough of Manhattan is to make partial restoration of an item of \$125,000 included by the Board of Estimate and Apportionment in the Budget for 1912, and cut out of the Budget by the Board of Aldermen. The need for the appropriation was fully investigated and considered by the Board of Estimate in the appropriation in the Budget. There is no necessity at this time to report the detailed arguments in favor of the appropriation. I recommend the authorization of the amount requested.

The \$10,000 requested for materials for repairs and replacements by departmental labor in the Bureau of Highways, Borough of Manhattan, is to prevent a deficiency. It is stated by the Borough President that by reason of clerical errors in his Department the amount requested in the Budget for 1912 for materials for repairs and replacements by departmental labor was only \$52,205. The details upon which this request was made total \$61,425. It appears that the additional appropriation is necessary. I recommend that the full amount be authorized as requested.

The \$500 requested for the maintenance of an automobile to be used by the Chief of the Bureau of Licenses during the remainder of the year 1912 is to provide for the remaining five months of the year. It is stated by the Chief of the Bureau of Licenses that the appropriation in the Budget was sufficient for only seven months. I recommend the authorization of \$500 in special revenue bonds.

The \$1,800 requested by the Department of Health for the purpose of paying the wages of additional help requested for the new quarters occupied by that Department from July 1 to December 31, 1912, is necessary to provide for ten Cleaners, at \$30 per month. The original request of the Board of Health was for \$3,840 for ten Cleaners and three Laborers. The three Laborers were provided for by transfer of men from the building previously occupied by the Department of Health. I recommend the authorization of the \$1,800 requested.

I have not had time to get a detailed report upon the actual amount of money necessary to make the alterations, repairs and purchase of equipment for the building at Centre and Walker streets to be occupied by the Department of Health. I believe that the revenue bonds should be authorized now, but that the authorization should be conditional upon approval of the plans and specifications, just as is done in the case of all work chargeable to corporate stock. I recommend that the revenue bonds be authorized, provided that the plans and specifications should be approved by the Board of Estimate and Apportionment or by the Comptroller, if submitted during the recess of this Board.

In regard to the request for \$250 to be used by the City Clerk and the Clerk of the Board of Aldermen to increase the salary of Frederick Richter for the remainder of the year 1912, beginning July 1, from \$1,750 to \$2,250 per annum, I recommend that the request be denied. The policy of this Board as definitely adopted at the meeting of July 11, 1912, prohibits all increases except such as can be made within the Budget appropriation and in accordance with the resolutions governing the Budget. The increase requested in this case cannot be made within the appropriation.

Also I recommend the denial of the request for \$250 in revenue bonds to be used by the City Clerk and the Clerk of the Board of Aldermen for the purpose of increasing the salary of John J. Flaherty, Clerk, for the remainder of the year 1912, beginning July 1, from \$2,000 to \$2,500 per annum.

I recommend that the resolution requesting \$600 to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of paying a Laundry Manager at \$1,200, from July 1 to December 31, 1912, be concurred in to the extent of \$500, to pay the salary of a Laundry Manager from August 1 to December 31, 1912.

The \$10,200 requested for the Department of Finance to equip the Bronx offices of the Receiver of Taxes and the Bureau for the Collection of Assessments and Arrears in the new building known as the Bergen Building at the southeast corner of Tremont avenue and Arthur avenue, in the Borough of The Bronx, is necessary in order to permit the occupation of these offices. The estimates for this work were prepared by Engineers who made a thorough study of the needs of the two Bureaus of the Finance Department. I recommend that the \$10,200 be authorized as requested.

The beneficial results of the efforts to exterminate mosquitos by destroying their breeding places in the Borough of Richmond have been so great in the past that, in my opinion, there is no doubt that the work should be continued. In the last year or two the appropriation has not been sufficient to carry on the work as it should have been done. It is proposed to use twenty Laborers at \$55 a month, and two Laborers, acting as Foremen, at \$65 per month, for four months, with one Chauffeur at \$100 a month, and one auto truck to transport oil and Laborers, and \$1,180 for contingent expenses. The \$10,000 requested is more than will be needed for the remainder of this season, during which the effective work can be done. The request was made in May, and it was expected that four months would be available for the work. The season is now so far advanced that it is not likely that work will cover a period of more than two and one-half months. It is extremely unlikely that more than sixty-five working days can be utilized. I have based my recommendations on sixty-five working days for the force of twenty Laborers and two Laborers acting as Foremen. I believe the Laborers should be paid on a per diem basis at \$2 per diem, and that the two Laborers to

act as Foremen should receive \$2.50 per diem. The \$3,500 requested for an auto truck is excessive. It appears that it would be a waste of money to pay that sum for an auto truck to be used for four months, but for the very unusual conditions in Staten Island and the remoteness from transportation of the locations where the work will be performed, it would not be necessary to provide a truck for transporting oil and Laborers. A truck can be hired or purchased at a much lower rate than that proposed. I recommend that only \$2,000 be authorized for the auto truck. I recommend the authorization of \$5,925, subject to the following schedule:

20 Laborers, at \$2 per diem (65 days).....	\$2,600 00
2 Laborers (acting as Foremen), at \$2.50 per diem (65 days).....	325 00
1 Chauffeur, at \$100 per month (2½ months).....	250 00
1 auto truck for transportation of oil and Laborers.....	2,000 00
Contingent expenses	750 00
	\$5,925 00

I recommend the authorization of \$3,500 requested for making alterations in the building at Nos. 57 and 59 Centre street, Manhattan, to be used by the Bureau of Licenses in the Mayor's office. The quarters occupied by this Bureau in the City Hall are entirely unsuited for the work of the Bureau. The new quarters should be fitted up as soon as possible.

The resolution requesting \$4,000 for equipping and furnishing premises at No. 207 East 32d street, Manhattan, for the 4th District Municipal Court, has already been adopted by the Board of Estimate and Apportionment. As originally adopted it provided that the proceeds of the revenue bonds were to be used by the Justices of the 4th District Municipal Court. On July 9, 1912, the Board of Aldermen amended the resolution to provide that the proceeds should be used by the President of the Borough of Manhattan instead of the Justices of the 4th District Municipal Court. I recommend that the amended resolution be adopted.

I recommend the authorization of \$23,581.61 requested by the Comptroller for the payment of rent of property under lease to the City and used by the Justices of the Supreme Court of the State of New York. The quarters for which the rent is to be paid are in the Emigrants' Industrial Savings Bank Building, Nos. 43-51 Chambers street. The leases for the rooms occupied by the Justices have been approved by the Commissioners of the Sinking Fund.

Sufficient provision was not made in the Budget for 1912 for the wages of substitute Engineers and Firemen to take the place of the regular Engineers and Firemen in the Department of Bellevue and Allied Hospitals during the vacation period. Provision should be made now. I recommend the authorization of the \$1,680 requested for this purpose.

Attached hereto are resolutions carrying into effect the various recommendations made in this report. Respectfully,

WM. A. PRENDERGAST, Comptroller.

A.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on July 2, 1912, and approved by the Mayor on July 9, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one hundred thousand dollars (\$100,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of replenishing the budget appropriation, Line No. 1831, for the repair of asphalt pavements in the Borough of Manhattan, all expenditures contracted for hereunder to be incurred on or before December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding one hundred thousand dollars (\$100,000), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds of such revenue bonds to be used by the President of the Borough of Manhattan for the purposes aforesaid, and as supplemental to the budget appropriation Code No. 1831.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

B.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on July 2, 1912, and approved by the Mayor on July 9, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand dollars (\$10,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of replenishing budget appropriation for 1912, for materials for repairs and replacements by Departmental labor in the Bureau of Highways in the Borough of Manhattan."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding ten thousand dollars (\$10,000), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds of such revenue bonds to be used by the President of the Borough of Manhattan for the purposes aforesaid, and as supplemental to the appropriation in the 1912 budget for materials for repairs and replacements by Departmental labor.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

C.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five hundred dollars (\$500), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's office, for the purpose of providing additional means for maintenance of auto during remainder of the year 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five hundred dollars (\$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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

D.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand eight hundred dollars (\$1,800), the proceeds whereof to be used by the Department of Health for the purpose of paying

wages of additional help required to care for new quarters occupied by said Department, from July 1 to December 31, 1912, inclusive.

"10 Cleaners, at 30 per month..... \$1,800 00"
—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding one thousand eight hundred dollars (\$1,800), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

DD.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Health for the year 1912, to take effect as of July 1, 1912, as follows:

DEPARTMENT OF HEALTH
Personal Service, General Administration, Office of the Secretary.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
292 Salaries, Regular Employees:			
Secretary	\$5,000 00		\$5,000 00
Chief Clerk	3,500 00		3,500 00
Clerk, 5 at \$2,550.....	12,750 00		12,750 00
Clerk, 2 at \$2,400.....	4,800 00		4,800 00
Clerk	2,100 00		2,100 00
Clerk, 4 at \$1,800.....	7,200 00		7,200 00
Clerk, 6 at \$1,500.....	9,000 00		9,000 00
Clerk, 5 at \$1,200.....	6,000 00		6,000 00
Clerk, 6 at \$900.....	5,400 00		5,400 00
Clerk	750 00		750 00
Clerk	600 00		600 00
Clerk, 4 at \$540.....	2,160 00		2,160 00
Clerk, 9 at \$480.....	4,320 00		4,320 00
Clerk, 5 at \$300.....	1,500 00		1,500 00
Bookkeeper, 5 at \$1,200.....	6,000 00		6,000 00
Stenographer and Typewriter.....	1,200 00		1,200 00
Stenographer and Typewriter, 4 at \$900.....	3,600 00		3,600 00
Stenographer and Typewriter.....	750 00		750 00
Stenographer and Typewriter.....	600 00		600 00
Typewriting Copyist.....	900 00		900 00
Typewriting Copyist, 3 at \$750.....	2,250 00		2,250 00
Typewriting Copyist, 5 at \$600.....	3,000 00		3,000 00
Messenger	1,500 00		1,500 00
Inspector of Foods.....	1,200 00		1,200 00
Telephone Switchboard Operator, 6 at \$900.....	5,400 00		5,400 00
Telephone Switchboard Operator.....	750 00		750 00
Elevator Attendant, 3 at \$900.....	2,700 00		2,700 00
Janitor	750 00		750 00
Foreman of Laborers.....	1,500 00		1,500 00
Watchman	600 00		600 00
Laborer	1,050 00		1,050 00
Laborer, 4 at \$900.....	3,600 00		3,600 00
Laborer, 10 at 780.....	7,800 00		7,800 00
Laborer, 2 at \$732.....	1,464 00		1,464 00
Laborer, 7 at \$720.....	5,040 00		5,040 00
Cleaner	480 00		480 00
Cleaner, 28 at \$360.....	6,480 00	\$3,600 00	10,080 00
Laboratory Assistant.....	900 00		900 00
Laboratory Assistant.....	750 00		750 00
Schedule total			\$128,944 00
Tax levy part allowance.....			\$125,344 00
Special revenue bond allowance.....			3,600 00
Total allowance			\$128,944 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

E.

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of thirty-seven thousand four hundred and fifteen dollars (\$37,415), the proceeds whereof to be used by the Department of Health for the purpose of constructing vault, alterations, repairs, purchase of equipment, etc., in the building located on the southwest corner of Centre and Walker streets, Borough of Manhattan, occupied by said Department, as follows:

Constructing fireproof vault.....	\$4,315 00
Electric book lifts	2,250 00
Cutting doorways and stairways.....	950 00
Constructing partitions	3,000 00
Electric wiring and fixtures	8,000 00
Installing chemical and diagnosis laboratories.....	7,500 00
Alterations to plumbing	1,000 00
Finishing wood floors	2,250 00
Window shades	900 00
Painting and lettering	1,000 00
Repairing old equipment and purchase of new equipment.....	5,000 00
Time clock, watchman's clock and call bells.....	1,000 00
Architect's services	250 00
	\$37,415 00"

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding thirty-seven thousand four hundred and fifteen dollars (\$37,415), redeemable from the tax levy of the year succeeding the year of their issue, provided, however, that no expenditure from the proceeds of this authorization be made until after the Board of Estimate and Apportionment, or the Comptroller acting on behalf of the Board of Estimate and Apportionment, shall have approved the plans and specifications for the work authorized herein.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

F.

The following resolution was offered:
Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of six hundred dollars (\$600), the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals, for the purpose of paying salary of a Laundry Manager, at the rate of \$1,200 per annum, from July 1 to December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of five hundred dollars (\$500), to pay the salary of a Laundry Manager, from August 1 to December 31, 1912, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five hundred dollars (\$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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

G.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor on July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand two hundred dollars (\$10,200), the proceeds whereof to be used by the Department of Finance for the purpose of furnishing and equipping branch offices of the Receiver of Taxes and the Bureau for Collection of Assessments and Arrears in building situated at the southeast corner of Tremont avenue and Arthur avenue, Borough of The Bronx, all obligations contracted for hereunder to be incurred on or before December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding ten thousand two hundred dollars (\$10,200), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

H.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor on July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of ten thousand dollars (\$10,000), the proceeds whereof to be used by the Board of Health of the Department of Health for the purpose of employing Laborers for draining marshes and destroying mosquito-breeding places in the Borough of Richmond; auto truck for the transportation of oil and Laborers, and necessary contingent expenses, as follows:

20 Laborers for draining marshes and oiling temporary inland collections of water, at \$55 per month, for four months.....	\$4,400 00
2 Laborers to act as Foremen, at \$65 per month, for four months....	520 00
1 Chauffeur, at \$100 per month, for four months.....	400 00
1 auto truck for oil and Laborers.....	3,500 00
Contingent expenses	1,180 00
	\$10,000 00'

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of five thousand nine hundred and twenty-five dollars (\$5,925), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand nine hundred and twenty-five dollars (\$5,925), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds of this authorization to be expended in accordance with the following schedule:

20 Laborers, at \$2 per day (65 days).....	\$2,600 00
2 Laborers (acting as Foremen), at \$2.50 per day (65 days).....	325 00
1 Chauffeur, at \$100 per month (2½ months).....	250 00
1 auto truck for transporting oil and Laborers.....	2,000 00
Contingent expenses	750 00
	\$5,925 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

I.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor on July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand five hundred dollars (\$3,500), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purpose of making the necessary changes to the building known as 57-59 Centre street, Manhattan, which has been leased by the City for the Bureau of Licenses, and for new furniture to be installed therein."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment; and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three thousand five hundred dollars (\$3,500), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

J.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment on April 11, 1912, which reads as follows:

"Resolved, That the resolution adopted by the Board of Aldermen on February 27, 1912, requesting an issue of special revenue bonds in the sum of four thousand dollars (\$4,000), the proceeds whereof to be used by the Justices of the Fourth District Municipal Court, for the purpose of equipping and furnishing the premises at 207 East 32d street, in the Borough of Manhattan, for the use of said Fourth District Municipal Court, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding

four thousand dollars (\$4,000), redeemable from the tax levy of the year succeeding the year of their issue."

—be and the same is hereby rescinded.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

JJ.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on February 27 and amended by the Board of Aldermen on July 9, 1912, which reads as follows:

"Resolved, That the following resolution, adopted by the Board of Aldermen February 27, 1912, and received from his Honor the Mayor March 12, 1912, without his approval or disapproval thereof:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four thousand dollars (\$4,000), the proceeds whereof to be used by the Justices of the Fourth District Municipal Court for the purpose of equipping and furnishing the premises at 207 East 32d street, in the Borough of Manhattan, for the uses of said Fourth District Municipal Court."

—be and the same is hereby amended by striking therefrom the words *Justices of the Fourth District Municipal Court*, and inserting in lieu thereof the words *President of the Borough of Manhattan*."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding four thousand dollars (\$4,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

K.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor on July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of subdivision 8, section 188, of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of \$23,581.61, the proceeds whereof to be used by the Comptroller for the payment of rent upon property under lease to The City of New York, from May 15, 1912, to December 31, 1912, in the amount of \$21,000, and also from June 15, 1912, to December 31, 1912, in the sum of \$2,581.61, for use of the Justices of the Supreme Court of the State of New York, First Department, in the County of New York."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding twenty-three thousand five hundred and eighty-one dollars and sixty-one cents (\$23,581.61), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

L.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand six hundred and eighty dollars (\$1,680); the proceeds whereof to be used by the Trustees of Bellevue and Allied Hospitals for the purpose of providing means for the payment of wages of Engineers and Firemen to be appointed during the vacation period of the regular force, all obligations contracted for hereunder to be incurred before December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding one thousand six hundred and eighty dollars (\$1,680), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

M. and N.

The two resolutions disapproving of the requests of the Board of Aldermen adopted June 4, 1912, for issues of special revenue bonds (subdivision 8, section 188 of the Charter) in the sums of \$250 each, for increases in the salaries of Frederick Richter and John J. Flaherty, Clerks in the office of the City Clerk and Clerk of the Board of Aldermen, from July 1, 1912, to December 31, 1912, were unanimously adopted.

Subsequently this action was reconsidered and resolutions were adopted approving of and concurring in the requests of the Board of Aldermen as above set forth.

The Secretary presented the following resolution of the Board of Aldermen requesting, communication from the Commissioner of Docks relative thereto, and report of the Comptroller recommending, the issue of \$12,000 special revenue bonds (subdivision 8, section 188 of the Charter) to provide means for the payment of music to be engaged for afternoons only on the piers of the Department of Docks and Ferries during the summer season of 1912:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of twelve thousand dollars (\$12,000), the proceeds whereof to be used by the Department of Docks and Ferries for the purpose of paying for music to be engaged only for afternoons on the piers of the Department during the summer season of 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912.

P. J. SCULLY, Clerk.

Department of Docks and Ferries, City of New York, Pier "A," North River, July 10, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman, Board of Estimate and Apportionment:

Sir—The Board of Aldermen, at its meeting held yesterday, adopted a resolution approving an issue of special revenue bonds in the sum of \$12,000 for music on the recreation piers. As this resolution cannot be approved by you at your meeting to

be held to-morrow, owing to the fact that under the Charter the Mayor cannot act on the resolution for several days, and as you are about to adjourn for the summer, it is necessary that some means be adopted whereby the funds can be had immediately.

I request that the sum of \$12,000 be transferred from Code No. 147, Supplies and Materials, Docks, to Code No. 159, Special Contract Obligations, Docks, Maintenance, in this Department's 1912 Budget. This of course is with the understanding that when the special revenue bond issue in the sum of \$12,000 shall become available the money will be applied to reimburse Code No. 147, Supplies and Materials, Docks, from which item it is now suggested the money be taken for immediate use.

Yours very truly,
CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 15, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1912, the Commissioner of Docks requested transfer of \$12,000 within the appropriations to his Department for the year 1912. In connection therewith I report as follows:

Request for a transfer was based on the supposition that \$12,000 special revenue bonds authorized by the Board of Aldermen on July 9, 1912, for afternoon concerts on recreation piers could not be made available by the Board of Estimate and Apportionment before adjournment on July 15 because of the provision of section 30 of the Greater New York Charter requiring the Mayor to hold a resolution three days before signing.

The Mayor duly approved the resolution this morning (July 15). A transfer is therefore unnecessary and action may be taken on the resolution of the Board of Aldermen. That resolution requests the Board of Estimate and Apportionment to authorize \$12,000 special revenue bonds, the proceeds whereof to be used by the Department of Docks and Ferries for the purpose of paying for music to be engaged only for afternoons on the piers of the Department during the summer season of 1912.

It is proposed to give additional concerts in the afternoons and pay for them from the proceeds of this issue, if it is authorized.

I recommend the adoption of the attached resolution granting the request.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of twelve thousand dollars (\$12,000), the proceeds thereof to be used by the Department of Docks and Ferries for the purpose of paying for music to be engaged only for afternoons on the piers of the Department during the summer season of 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and, for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York charter, to issue special revenue bonds of The City of New York to an amount not exceeding twelve thousand dollars (\$12,000), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting the issue of \$1,820.25 special revenue bonds (subdivision 8, section 188 of the Charter) for the purpose of meeting expenses incurred by the Sheriff of New York County at the primary election held March 26, 1912, together with a report of the Comptroller, to whom this matter was referred July 11, 1912, recommending an issue of \$1,214.25 for this purpose:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand eight hundred and twenty dollars and twenty-five cents (\$1,820.25), the proceeds whereof to be used by the Sheriff of New York County for the purpose of meeting expenses of primary election held March 26, 1912.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting \$1,820.25 in special revenue bonds to be used by the Sheriff of New York County for the purpose of meeting expenses of the primary election held March 26, 1912. In connection therewith I report as follows:

The Sheriff states that these expenses were incurred in order to comply with the order of the Governor to preserve peace at the primary election to be held on March 26. He further states he employed 202 deputies at \$8 each, a total of \$1,616, and that his expenses for automobiles, telephones, breakage, etc., amounted to \$204.25. The uniform rate generally allowed for deputies at primary elections in all the counties is \$5, and therefore I recommend the adoption of the attached resolution granting the request only to the extent of \$1,214.25.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 11, 1912, requesting an issue of special revenue bonds in the sum of one thousand eight hundred twenty dollars and twenty-five cents (\$1,820.25), the proceeds whereof to be used by the Sheriff of New York County for the purpose of meeting expenses of primary election held March 26, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of one thousand two hundred and fourteen dollars and twenty-five cents (\$1,214.25), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand two hundred fourteen dollars and twenty-five cents (\$1,214.25), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of \$1,500 special revenue bonds (subdivision 8, section 188 of the Charter) for the purpose of furnishing new offices at No. 1932 Arthur avenue, The Bronx, for the use of the Coroners of the Borough of The Bronx, all obligations hereunder to be contracted for previous to December 31, 1912:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand five hundred dollars (\$1,500), the proceeds whereof to be used by the Coroners of the Borough of The Bronx for the purpose of furnishing new offices at 1932 Arthur ave., Borough of The Bronx, all obligations contracted for hereunder to be incurred on or before December 31, 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law.

Approved by the Mayor July 15, 1912.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting \$1,500 in special revenue bonds, to be used by the Coroners of the Borough of The Bronx for the purpose of furnishing new offices at No. 1932 Arthur avenue.

The Coroners estimate the cost of new fittings and furnishings necessary for their offices and court room, as follows:

Court room, jury room, box and bench.....	\$694 50
Clerks, Physicians and public offices.....	713 00
Coroners' offices	359 50
Wiring, fans, door checks, etc.....	233 00

\$2,000 00

After examination it seems that \$1,500 would be a reasonable allowance.

I recommend the adoption of the attached resolution granting the request.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of one thousand five hundred dollars (\$1,500), the proceeds whereof to be used by the Coroners of the Borough of The Bronx, for the purpose of furnishing new offices at No. 1932 Arthur avenue, Borough of The Bronx, all obligations contracted for hereunder to be incurred on or before December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand five hundred dollars (\$1,500), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of \$1,000 special revenue bonds (subdivision 8, section 188 of the Charter), to be used by a Special Committee of said Board for the purpose of celebrating the fiftieth anniversary of the Battle of Antietam, in Prospect Park, Brooklyn, on September 21, 1912, under the auspices of the War Veterans and Sons Association, U. S. A., together with a report of the Comptroller recommending that said request be disapproved, for the reason that it would seem that a celebration of this kind would be more fitting and patriotic without the expenditure of the City's funds:

(On July 11, 1912, the above resolution of the Board of Aldermen was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand dollars (\$1,000), the proceeds whereof to be used under the jurisdiction of a Special Committee of the Board of Aldermen for the purpose of celebrating the fiftieth anniversary of the Battle of Antietam, to be held in Prospect Park, in the Borough of Brooklyn, on Saturday, September 21, 1912, under the auspices of the War Veterans and Sons' Association of the United States of America.

Adopted by the Board of Aldermen June 11, 1912, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 2, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 11, 1912, the Board of Aldermen adopted a resolution requesting an issue of special revenue bonds to the amount of \$1,000, the proceeds whereof to be used under the jurisdiction of the Special Committee of the Board of Aldermen for the purpose of celebrating the fiftieth anniversary of the battle of Antietam; the celebration to be held in Prospect Park, Brooklyn, on Saturday, September 21, 1912, under the auspices of the War Veterans and Sons' Association of the United States of America. This resolution was referred to me for report, and I report thereon, as follows:

I am in perfect sympathy with the spirit which inspired the proposal to celebrate the battle of Antietam. However, I feel that it is not necessary to spend \$1,000 in order to have a proper celebration of this anniversary. If the battle of Antietam had been fought in this locality and if there were any special reason for a celebration to be participated in by the Government of The City of New York it might be proper to authorize revenue bonds for the purpose. I realize that many veterans living in this City had a valorous part in the battle of Antietam, and their interest in the fiftieth anniversary of that battle is naturally strong. I believe that this interest is of such a kind that it will be manifested in the most fitting and patriotic way without the expenditure of a single cent of the City's funds. For this reason I recommend that the resolution of the Board of Aldermen be not concurred in by the Board of Estimate and Apportionment. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby disapproves of the request of the Board of Aldermen, as set forth in a resolution adopted June 11, 1912, for an issue of special revenue bonds in the sum of one thousand dollars (\$1,000), the proceeds whereof to be used by a Special Committee of the Board of Aldermen for the purpose of celebrating the 50th anniversary of the Battle of Antietam, to be held in Prospect Park, Brooklyn, on September 21, 1912, under the auspices of the War Veterans and Sons' Association of the United States of America.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—14.
Negative—The President of the Borough of Brooklyn—2.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Board of Aldermen.

The Secretary presented a report of the Comptroller recommending that no action be taken on the request of the President of the Board of Trustees, Supreme Court Library, Queens County, for an issue of \$80 special revenue bonds (subdivision 7, section 188 of the Charter), for the payment of the premium on an insurance policy, for the reason that this payment should be met by the issue of special revenue bonds under subdivision 8, section 188 of the Charter, and application therefore should be made to the Board of Aldermen.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the President of the Board of Trustees, Supreme Court Library, Queens County.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity relative to an issue of \$10,653 special revenue bonds (subdivision 8, section 188 of the Charter), to permit of granting vacations to per diem employees in the Department of Water Supply, Gas and Electricity, together with a report of the Comptroller stating that said amount may be met by a transfer within the appropriation made to said Department, and recommending therefore that the sum of \$4,325 be transferred from Account No. 461 to Accounts Nos. 466 and 470, within the appropriation made to the Department of Water Supply, Gas and Electricity for the year 1912, involving the modification of salary schedules Nos. 461, 466 and 470 for the year 1912 be effective as of July 15, 1912:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 5, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—On June 17 I applied to the Board of Aldermen for revenue bonds to the amount of \$10,653 for wages of employees temporarily engaged to allow vacations to the per diem men.

It has since been demonstrated that there is a sufficient sum in the various schedules supporting the appropriations for temporary time to provide for this vacation period, and I respectfully request that you present the matter to the Board of Estimate and Apportionment, with your approval, to the end that these schedules may be modified to make the surplus money available. Yours truly,
HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 17, 1912, the Commissioner of Water Supply, Gas and Electricity applied to the Board of Aldermen for \$10,653 in special revenue bonds to permit of the granting of vacations to per diem employees in his Department.

Prior to action by the Board of Aldermen on this request, and examination disclosed the fact that there were ample balances in the 1912 budget appropriations of the Department for wages of temporary employees to permit of granting the desired vacations through modification and transfers without additional appropriation being made for that purpose. The attention of the Commissioner's representative was thereupon called to the existing condition.

The Commissioner, therefore, on July 5, 1912, requested me to present to your Board, with my approval, resolutions embodying the necessary schedule modifications and required transfers of funds.

The credit transfers required are, \$2,427 to Account No. 466 and \$1,898 to Account No. 470; to be provided for by a debit transfer of \$4,325 from Account No. 461. The necessary line item changes in detail are as follows:

Account No.	Line Item.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
461	Laborer, at \$2.50 per day (5,100 days)			\$4,325 00	
466	Engineman, at \$4.50 per day (1,180 days)	315 00			315 00
	Stationary Engineer, at \$4.50 per day (65 days)	270 00			270 00
	Oiler, at \$3 per day (1,044 days)		1,458 00		1,458 00
	Stoker, at \$3 per day (1,208 days)		1,710 00		1,710 00
	Machinist, at \$4.50 per day (130 days)	396 00		396 00	
	Machinist's Helper, at \$3 per day (190 days)	450 00		450 00	
	Laborer, at \$2.50 per day (206 days)		690 00		690 00
470	Inspector, at \$5 per day (40 days)	120 00		120 00	
	Inspector, at \$4 per day (875 days)	2,400 00		2,400 00	
	Foreman, at \$5 per day (392 days)	800 00		800 00	
	Assistant Foreman, at \$3 per day (1,202 days)	450 00		450 00	
	Machinist's Helper, at \$3 per day (136 days)	99 00		99 00	
	Tapper, at \$4 per day (62 days)	160 00		160 00	
	Caulker, at \$4 per day (3,064 days)		1,632 00		1,632 00
	Driver, at \$2.50 per day (108 days)		90 00		90 00
	Watchman, at \$2.50 per day (186 days)	125 00		125 00	
	Laborer, at \$2.50 per day (3,504 days)		4,330 00		4,330 00
		\$9,910 00	\$9,910 00	\$9,910 00	\$9,910 00

No allowances for vacations for per diem employees were included in the 1912 Budget appropriations. The unexpended amounts now available for that purpose are the result of a recent opinion of the Corporation Counsel that no City employees can legally receive compensation for overtime emergency work.

I recommend the adoption of the attached resolutions transferring the sum of \$4,325, and modifying the existing schedules in conformity therewith.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Water Supply, Gas and Electricity for the year 1912, as follows:

FROM		
Personal Service, Water Supply.		
Collection and Storage—		
461 Wages, Temporary Employees		\$4,325 00
TO		
Personal Service, Water Supply.		
Pumping—		
466 Wages, Tempory Employees		\$2,427 00
Distribution—		
470 Wages, Temporary Employees		\$1,898 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Water Supply, Gas and Electricity for the year 1912, to be effective as of July 15, 1912, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.		
Personal Service, Water Supply.		
Collection and Storage		
461 Wages, Temporary Employees:		
Foremen, at \$5 per day (10 days)		50 00
Foremen, at \$4 per day (20 days)		80 00
Foreman, at \$3.50 per day (10 days)		35 00
Foreman, at \$3 per day (10 days)		30 00
Assistant Foreman, at \$3 per day (50 days)		150 00
Carpenter, at \$5 per day (10 days)		50 00
Stonecutter, at \$4.50 per day (10 days)		45 00
Painter, at \$4 per day (20 days)		80 00
Mason, at \$4 per day (30 days)		120 00
Laborer, at \$2.50 per day (3,370 days)		8,425 00
		\$9,065 00
Pumping.		
466 Wages, Temporary Employees:		
Engineman, at \$4.50 per day (1,110 days)		\$4,995 00
Stationary Engineer, at \$4.50 per day (5 days)		22 50
Oiler, at \$3 per day (1,530 days)		4,590 00

Stoker, at \$3 per day (1,778 days)	5,334 00
Bricklayer, at \$5.60 per day (26 days)	145 60
Pipefitter at \$5.50 per day (42 days)	231 00
Carpenter, at \$5 per day (16 days)	80 00
Blacksmith, at \$4.50 per day (10 days)	45 00
Machinist, at \$4.50 per day (42 days)	189 00
Machinist's Helper, at \$3 per day (40 days)	120 00
Pipefitter's Helper, at \$3 per day (42 days)	126 00
Mason's Helper, at \$3 per day (10 days)	30 00
Assistant Foreman, at \$3 per day (12 days)	36 00
Watchman, at \$2.50 per day (20 days)	50 00
Laborer, at \$2.50 per day (482 days)	1,205 00
	\$17,199 10

Distribution.

470 Wages, Temporary Employees:		
Inspector, at \$5 per day (16 days)		\$80 00
Inspector, at \$4 per day (275 days)		1,100 00
Inspector of Masonry, at \$5 per day (10 days)		50 00
Foreman, at \$5 per day (232 days)		1,160 00
Foreman, at \$4 per day (36 days)		144 00
Assistant Foreman, at \$3 per day (1,052 days)		3,156 00
Carpenter, at \$5 per day (20 days)		100 00
Housesmith, at \$5 per day (10 days)		50 00
Machinist, at \$4.50 per day (62 days)		279 00
Machinist's Helper, at \$3 per day (103 days)		309 00
Blacksmith, at \$4.50 per day (10 days)		45 00
Blacksmith's Helper, at \$3 per day (10 days)		30 00
Flagger, at \$4.50 per day (10 days)		45 00
Tapper, at \$4 per day (22 days)		88 00
Caulker, at \$4 per day (3,472 days)		13,888 00
Toolman, at \$2.50 per day (12 days)		30 00
Driver, at \$2.50 per day (144 days)		360 00
Watchman, at \$2.50 per day (136 days)		340 00
Laborer, at \$2.50 per day (5,236 days)		13,090 00
		\$34,344 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Board of Aldermen.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity relative to, and report of the Comptroller recommending, that the sum of \$20,957.80 be appropriated from the water revenues received in the Borough of Brooklyn during the year 1912 to provide means for the compensation of temporary Inspectors and Clerks in said Department for the year 1912, also recommending approval of schedule for said fund, to be effective as of June 15, 1912:

The City of New York, Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, June 25, 1912.
JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York:

Dear Sir—The house to house examination by temporary Inspectors that was carried on last year in the Boroughs of Manhattan and The Bronx was of so much benefit (the result being an increase in the annual revenue of those two Boroughs of about a quarter of a million dollars and a saving in the average daily consumption of water of about sixty million gallons) that I would like to do the same work in the Borough of Brooklyn, and I respectfully request that the Board of Estimate and Apportionment make a further appropriation, under section 242 of the Charter, out of the Brooklyn water revenue of \$22,000.

This sum will permit the employment of 40 Inspectors for 5 months, at \$1,100 each per annum, and 10 temporary Clerks for 5 months, at \$900 each per annum.

Yours truly,
J. W. F. BENNETT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 25, 1912, the Commissioner of Water Supply, Gas and Electricity requested a further appropriation of \$22,000 from the water revenues of the Borough of Brooklyn, pursuant to the provisions of section 242 of the Greater New York Charter, to provide for the compensation of temporary Inspectors and Clerks, to be appointed for five months. In connection therewith I report as follows:

The Commissioner states that the house to house examinations by temporary Inspectors during 1911, in the Boroughs of Manhattan and The Bronx resulted in an increase of about \$250,000 in the annual revenues of those Boroughs, and a saving of about sixty million gallons daily in the water consumed. He therefore desires to have a similar inspection made in the Borough of Brooklyn and states that the sum requested will permit the employment for five months of 40 Inspectors, at \$1,100 per annum, and 10 Clerks, at \$900 per annum.

The estimated average daily consumption of water in the Borough of Brooklyn during 1912 and the available supply in the same period are stated at 145,000,000 gallons and 149,000,000 gallons, respectively. The normal annual increase in the consumption is slightly in excess of three per cent. While the saving of 60,000,000 gallons daily in the consumption of water in the Boroughs of Manhattan and The Bronx was effected by the employment of 120 additional Inspectors, or an apparent saving of half a million gallons to each additional employee, and a considerable part of the saving must be credited to the aid of the newspapers of the City and the fear of a water famine.

If however the actual saving effected by the additional Inspectors employed be taken at one quarter of a million gallons per Inspector, and equally good results are obtained in Brooklyn, the 40 Inspectors requested should effect a saving of 10,000,000 gallons daily.

It is claimed by the departmental Engineers that if this anticipated decrease in consumption can be obtained, it will result in a saving in the present cost of pumping of approximately \$100 per day, due to the shutting down of certain line stations, and \$60 per day by the saving in fuel, etc., at the Ridgewood pumping station, a total of \$160 per day. The cost of the proposed force on the basis of \$22,000 for five months, or 153 days, is approximately \$144 per day.

While the estimated decrease, both in the consumption of water and in the cost of pumping is possibly over liberally estimated it appears that when the increased revenues resulting from the house to house inspection are considered the net result of the employment of the additional force will show a saving to the City. Any material saving that can be effected in the consumption of water will lessen the amount required to be expended in the work of increasing the present supply of the Borough.

In view of the foregoing the temporary employment of the 40 additional Inspectors requested seems to be desirable. The requested allowance of 10 Clerks to handle the results of 40 Inspectors appears however to be excessive, and 7 additional temporary Clerks seem to be ample.

The cost of this force for five months will be as follows:

40 Inspectors, at \$1,100 for 5 months each	\$18,332 80
7 Clerks, at \$900 for 5 months each	2,625 00
	\$20,957 80

I therefore recommend the adoption of the attached resolution granting the request to the extent of \$20,957.80, and modifying the existing schedule in conformity therewith. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of subdivision 1 of section 242 of the Greater New York Charter, hereby appropriates from the water revenues received in the Borough of Brooklyn, during the year 1912, the sum of twenty thousand nine hundred and fifty-seven dollars and eighty cents (\$20,957.80), for the use of the Department of Water Supply, Gas and Electricity, in the maintenance, improvement and extension of the water supply system in the Borough of Brooklyn, during the year 1912, said appropriation to be in addition to all appropriations hitherto made for said purpose and to be used to replenish the

account entitled Personal Service, Water Revenue, Collecting, S309, Salaries, Temporary Employees, Water Revenue Force.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity, for the year 1912, to be effective as of June 15, 1912, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.	
Personal Service, Water Revenue Collection.	
Salaries, Temporary Employees, Water Revenue Force—	
Inspector, at \$1,100 (200 months).....	\$18,332 80
Clerk, at \$900 (53 months).....	3,975 00
Schedule Total	
	\$22,307 80
Water Revenue Allowance.....	22,307 80

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending approval, pursuant to the resolution adopted July 17, as amended August 31, 1911, as follows:

Approval of estimates of cost and forms of proposed contracts with Frank H. Quinby, Architect, for the preparation of complete plans, specifications and supervision of the construction of buildings for the Fire Department, located as follows:

- 1—West side of Bristol street, near Blake avenue, Brooklyn, approximated cost, \$1,297.86.
- 2—West side of Benedict avenue, near Fulton street, Queens, approximated cost, \$940.47.
- 3—North side of 79th street, near 12th avenue, Brooklyn, approximated cost, \$2,069.05.

Fire Department of The City of New York, Office of the Commissioner, February 29, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Sir—I transmit herewith for the approval of the Board of Estimate and Apportionment final contracts for services of Frank H. Quinby, 99 Nassau street, Manhattan, for the preparation of plans and specifications, etc., and the supervision of the following proposed buildings:

Westerly side of Bristol street, 225 feet 2 3/4 inches north of Blake avenue, Borough of Brooklyn.

Westerly side of Benedict avenue, 94.46 feet northerly from Fulton avenue, Woodhaven, Borough of Queens.

Northerly side of 79th street, 180 feet west of 12th avenue, Borough of Brooklyn.

Respectfully,
JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On February 29, 1912, the Fire Commissioner requested approval of the form of proposed final contracts with Frank H. Quinby, Jr., for services as Architect in the preparation of complete plans and specifications and the supervision of the construction of proposed fire houses for the Fire Department, to be located as follows:

- Westerly side of Bristol street, 225 feet 2 3/4 inches north of Blake avenue, Borough of Brooklyn.
- Westerly side of Benedict avenue, 94.46 feet northerly from Fulton avenue, Woodhaven, Borough of Queens.
- Northerly side of 79th street, 180 feet west of 12th avenue, Borough of Brooklyn.

The total estimated cost of the contract for the Bristol street fire house is \$1,297.86, which is to be charged to the corporate stock fund entitled "C. F. D.—26K, Fire Department, Brooklyn, Acquisition of Site and Erection of Building in the Vicinity of Bristol Street and Livonia Avenue." The appropriation of \$37,000 for the fund was approved by the Board of Estimate and Apportionment on June 3, 1910, and by the Board of Aldermen on June 28, 1910. On July 9, 1912, there was an unencumbered balance of \$34,376.82 in the fund.

The total estimated cost of the contract for the Benedict avenue fire house, Woodhaven, is \$940.47, which is to be charged to the corporate stock fund entitled "C. F. D.—27F, Fire Department, Queens, Erection of Building on Site in the Vicinity of Benedict Avenue and 5th Street, Woodhaven." The appropriation of \$25,000 for the fund was approved by the Board of Estimate and Apportionment on June 3, 1910, and by the Board of Aldermen on June 28, 1910. On July 9, 1912, there was an unencumbered balance of \$24,750 in the fund.

The total estimated cost of the contract for the 79th street fire house, Brooklyn, is \$2,069.05, which is to be charged to the corporate stock fund entitled "C. F. D.—26V, Fire Department, Brooklyn, Erection of Building on Site 79th Street, Between 11th and 12th Avenues." The appropriation of \$55,000 for the fund was approved by the Board of Estimate and Apportionment on July 17, 1911, and by the Board of Aldermen on July 25, 1911. On July 9, 1912, there was an unencumbered balance of \$54,450 in the fund.

At the suggestion of the Department of Finance corrections have been made in the estimates of the Architects' fees.

The forms of contract are similar to others which have been used by the City and have been approved by the Corporation Counsel.

I recommend the adoption of the attached resolution approving the request with the amendments noted. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on July 17, 1911, as amended on August 31, 1911, hereby approves the estimates of cost and the forms of proposed contracts with Frank H. Quinby as Architect in the preparation of complete plans and specifications and supervision of the construction of buildings for the Fire Department, to be located as follows:

Westerly side of Bristol street, two hundred and twenty-five feet two and three-quarter inches north of Blake avenue, Borough of Brooklyn; estimated fee of Architect five per cent, of the cost of the building less the amount paid for the preliminary plans, specifications, etc., approximately one thousand two hundred and ninety-seven dollars and eighty-six cents (\$1,297.86); the cost to be charged to the corporate stock fund entitled "C. F. D.—26K, Fire Department, Brooklyn, Acquisition of Site and Erection of Building in the Vicinity of Bristol Street and Livonia Avenue."

Westerly side of Benedict avenue ninety-four and forty-six one hundredths (94.46) feet northerly from Fulton avenue, Woodhaven, Borough of Queens, estimated fee of Architect, five per cent, of the cost of the building less the amount paid for the preliminary plans, specifications, etc., approximately nine hundred and forty dollars and forty-seven cents (\$940.47), the cost to be charged to the corporate stock fund entitled "C. F. D.—27F, Fire Department, Queens, Erection of Building on Site in the Vicinity of Benedict avenue and 5th Street, Woodhaven."

Northerly side of 79th street, one hundred and eighty (180) feet west of 12th avenue, Borough of Brooklyn; estimated fee of Architect five per cent, of the cost of the building less the amount paid for the preliminary plans, specifications, etc., approximately two thousand and sixty-nine dollars and five cents (\$2,069.05); the cost to be charged to the corporate stock fund entitled "C. F. D.—26V, Fire Department, Brooklyn, Erection of Building on Site, 79th Street, between 11th and 12th Avenues."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of form of contract with Dennison, Hiron & Darbyshire, Architects, for the preparation of complete plans and specifications, and supervision of the construction of building for the said Department on the south side of Vermilye avenue, near Academy street, Manhattan, approximated cost, \$1,880.95:

Fire Department of The City of New York, Office of the Commissioner, February 29, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Sir—I transmit herewith for approval of the Board of Estimate and Apportionment final contract for the services of Dennison, Hiron and Darbyshire, 475 5th avenue, Manhattan, for the preparation of plans, specifications, etc., and the supervision of a proposed building on the southerly side of Vermilye avenue, 200 feet west of Academy street, Borough of Manhattan. Respectfully,

JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On February 29, 1912, the Fire Commissioner requested approval of the form of a proposed final contract with Dennison, Hiron and Darbyshire for services as Architects in the preparation of complete plans and specifications and supervision of the construction of a fire house on the southerly side of Vermilye avenue, 200 feet west of Academy street.

The estimated cost of the contract is \$1,880.95, which is to be charged to the corporate stock fund entitled "C. F. D.—24C, Fire Department, Manhattan, Acquisition of Site and Erection of Building in the Vicinity of Dyckman Street and Broadway." An appropriation of \$40,000 for the fund was approved by the Board of Estimate and Apportionment on June 3, 1910, and by the Board of Aldermen on June 28, 1910. A further appropriation of \$22,000 was approved by the Board of Estimate and Apportionment on July 17, 1911, and by the Board of Aldermen on July 25, 1911. On July 9, 1912, there was an unencumbered balance of \$49,493.43 in the fund.

At the suggestion of the Department of Finance a correction has been made in the estimate of the Architects' fee.

The form of contract is similar to others which have been used by the City and have been approved by the Corporation Counsel.

I recommend the adoption of the attached resolution approving the request with the amendment noted. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on July 17, 1911, as amended on August 31, 1911, hereby approves the form of contract with Dennison, Hiron and Darbyshire as Architects for the preparation of complete plans and specifications and supervision of the construction of the proposed building of the Fire Department on the southerly side of Vermilye avenue, two hundred feet west of Academy street, Borough of Manhattan; estimated fee five per cent of the cost of the improvement, less the amount paid the Architects under the preliminary contract, approximately one thousand eight hundred and eighty dollars and ninety-five cents (\$1,880.95), the cost to be charged to the corporate stock fund entitled "C. F. D.—24C, Fire Department, Acquisition of Site and Erection of Building in the Vicinity of Dyckman Street and Broadway."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of form of contract, plans, specifications and estimate of cost (\$27,000), for hauling and setting fire hydrants and appurtenances in various streets in Brooklyn, under the jurisdiction of said Department:

Department of Water Supply, Gas and Electricity, Bureau of Supplies, Room 1904, 13-21 Park Row, City of New York, June 22, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York:

Dear Sir—I transmit herewith, for report by you to the Board of Estimate and Apportionment, in accordance with the resolution adopted by said Board on July 17, 1911, as amended August 31, 1911, a form of contract, specifications, etc., for hauling and setting fire hydrants and appurtenances in various streets, Borough of Brooklyn, the estimated cost of which is \$27,000.

I would ask that this be reported by you to the Board of Estimate and Apportionment as soon as possible. Yours truly,

J. W. F. BENNETT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 25, 1912, the Acting Commissioner of Water Supply, Gas and Electricity requested approval of the form of contract, plans, specifications and estimate of cost in the sum of \$27,000 for hauling and setting fire hydrants and appurtenances in various streets in Brooklyn.

The cost is to be paid, to the extent of \$8,400, from a corporate stock fund entitled "C. D. W.—12, Water Fund, Borough of Brooklyn," authorized by the Board of Estimate and Apportionment in amounts and on dates, as follows:

January 13, 1905	\$15,000 00
March 6, 1908	1,350,000 00

On July 8, 1912, an unencumbered balance of \$55,455.43 remained in the fund. The balance of the cost, estimated at \$18,600, is to be paid from a corporate stock fund of \$45,000 authorized by the Board of Estimate and Apportionment on July 17, 1911, and entitled "C. D. W.—26A, Water Supply System, Borough of Brooklyn, Furnishing and Setting 500 Additional Double Nozzle Hydrants." On July 8, 1912, an unencumbered balance of \$18,604.23 remained in the fund.

The form of contract, plans and specifications are satisfactory, and the estimate of cost is reasonable.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of July 17, 1911, as amended on August 31, 1911, hereby approves the form of contract, plans, specifications and estimate of cost in the sum of twenty-seven thousand dollars (\$27,000), for hauling and setting fire hydrants and appurtenances in various streets, in the Borough of Brooklyn, under the jurisdiction of the Department of Water Supply, Gas and Electricity, the cost to the extent of eight thousand four hundred dollars (\$8,400) to be paid from the corporate stock fund entitled "C. D. W.—12, Water Fund, Borough of Brooklyn," and to the extent of eighteen thousand six hundred dollars (\$18,600) from the corporate stock fund entitled "C. D. W.—26A, Water Supply System, Borough of Brooklyn, Furnishing and Setting 500 Additional Double Nozzle Hydrants."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Borough of Queens, requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of plans, specifications and estimate of cost (\$8,000), for the erection of a comfort station in Kings Park, Queens, under the jurisdiction of said Department:

The City of New York, Department of Parks, Borough of Queens, June 24, 1912.

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

Gentlemen—As required by resolution of your Board, I beg to forward herewith, for approval, plans, specifications and form of proposed contract for the erection of a comfort station in Kings Park, in the Borough of Queens.

This improvement is estimated to cost approximately \$8,000, chargeable against the fund provided by the issue of corporate stock designated as C. D. P—401A.

Respectfully, W. G. ELIOT, Commissioner of Parks, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

Board of Estimate and Apportionment:

Gentlemen—On June 24, 1912, the Commissioner of Parks, Borough of Queens, requested approval of plans and specifications for the erection of a comfort station in Kings Park, Borough of Queens, at a total estimated cost of \$8,000.

The cost of the work is chargeable against the corporate stock fund originally entitled "C. D. P.—220A, Erection of Comfort Station in Kings Park, Queens," authorized in the sum of \$10,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911. The fund was transferred by the Board of Estimate and Apportionment to the control of the Commissioner of Parks of Queens on March 7, 1912, the transfer being concurred in by the Board of Aldermen on April 2, 1912, and is now entitled "C. D. P.—401A, Erection of Comfort Station in Kings Park, Queens." No expenditures have been made from this fund.

The plans, specifications and estimate of cost being satisfactory, I recommend their approval by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, in accordance with its resolution of July 17, 1911, as amended on August 31, 1911, hereby approves the plans, specifications and estimate of cost in an amount of eight thousand dollars (\$8,000) for the erection of a comfort station in Kings Park, Queens, under the jurisdiction of the Department of Parks, Borough of Queens, the cost to be charged against the corporate stock fund entitled "C. D. P.—401A, Erection of Comfort Station in Kings Park, Queens,"

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Assistant Commissioner of Public Works, Borough of Manhattan, requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of form of contract, plans and specifications, as amended, and estimate of cost (\$75,000), for all labor and materials required for the erection etc., of an asphalt repair plant on premises between 90th and 91st streets, Avenue A and East River, Manhattan, under the jurisdiction of the President of the Borough of Manhattan:

Offices of Commissioner of Public Works, Borough of Manhattan, 21 Park Row, New York City, June 6, 1912.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, No. 277 Broadway, New York City:

Dear Sir—Pursuant to a resolution of the Board of Estimate and Apportionment of July 17, 1911 (as amended August 31, 1911), there are transmitted herewith for approval a contract, specifications and plans for the construction and equipment of an asphalt repair plant on the premises between 90th and 91st streets, and Avenue A to East River, Borough of Manhattan.

The estimated cost of the work is \$75,000, and will be charged to the fund "C. P. M.—4A, Construction and Equipment of Asphalt Repair Plant, Borough of Manhattan."

Your early consideration is respectfully requested. Very truly yours,

W. R. PATTERSON, Assistant Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 6, 1912, the Assistant Commissioner of Public Works, Borough of Manhattan, requested approval of the form of contract, plans, specifications and estimate of cost in the sum of \$75,000 for the construction and equipment of an asphalt repair plant on premises between 90th and 91st streets, Avenue A and the East River, Manhattan.

The cost is to be paid from a corporate stock fund of \$200,000, authorized by the Board of Estimate and Apportionment on July 17, 1911, concurred in by the Board of Aldermen on July 25, 1911, and entitled "C. P. M.—4A, Construction and Equipment of Asphalt Repair Plant, Borough of Manhattan." On July 8, 1912, an unencumbered balance of \$199,409.29 remained in the fund.

The form of contract, plans and specifications have been amended in accordance with suggestions of the Department of Finance, and are now satisfactory. The estimate of cost is reasonable.

I recommend the adoption of the attached resolution approving the form of contract, plans and specifications, with the amendments noted, and the estimate of cost. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of July 17, 1911, as amended on August 31, 1911, hereby approves the form of contract, plans and specifications as amended and the estimate of cost in the sum of seventy-five thousand dollars (\$75,000), for all the labor and materials required for the erection, construction and equipment of an asphalt repair plant on the premises situated between 90th and 91st streets, Avenue A and the East River, Borough of Manhattan, under the jurisdiction of the President of the Borough of Manhattan, the cost to be paid from the corporate stock fund entitled "C. P. M.—4A, Construction and Equipment of Asphalt Repair Plant, Borough of Manhattan."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented a report of the Comptroller recommending that the form of contract and specifications submitted by the Fire Commissioner for one (1) two-wheel electric storage battery tractor for a steam fire engine be returned, and that the said Commissioner be notified that it will be necessary to obtain authorization from the Board of Aldermen for the purchase of the tractor without public letting.

The Secretary was directed to return the form of contract and specifications referred to therein to the Fire Commissioner, together with a copy of the report of the Comptroller.

The Secretary presented the following report of the Corporate Stock Budget Committee recommending the issue of \$11,000 corporate stock to provide means for correcting the acoustical conditions in the Great Hall of the College of The City of New York:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—In the Corporate Stock Budget of the College of The City of New York is an item of \$15,000 for correcting acoustical defects in the Great Hall of the College. It is stated that it has not been practicable to put the Great Hall of the College to the full contemplated use because of the bad acoustical conditions. Experts in acoustics have been consulted and they stated that the conditions can be corrected, and that the hall can be acoustically perfect. It is advisable that this work be done at once, as the hall should be in good condition before September, when it will be needed. We are informed that \$11,000 is sufficient to do the work required.

We recommend the adoption of the attached resolution granting the request to the extent of \$11,000. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 168 of the Laws of 1895, as amended by chapter 608 of the Laws of 1896 and chapter 433 of the Laws of 1897, and sections 169 and 170 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 for an amount not exceeding eleven thousand dollars (\$11,000), to provide means for correcting the acoustical conditions in the Great Hall of the College of The City of New York, and the Comptroller is hereby authorized to

issue said corporate stock of The City of New York, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented a report of the Corporate Stock Budget Committee recommending that the sum of \$7,000,000 be released from the corporate stock account for deficiencies in tax levies of 1904, and prior, deemed uncollectable at January 1, 1905 (chapter 208, Laws of 1906), to provide for the amount of such deficiencies not otherwise provided for.

Which was laid over for the meeting to be held September 19, 1912.

The Secretary presented the following communication from the Metropolitan Sewerage Commission requesting, and report of the Corporate Stock Budget Committee recommending, the issue of \$27,000 corporate stock to pay the salaries and other expenses from July 1, 1912, to April 30, 1913, inclusive, of said Commission:

Metropolitan Sewerage Commission of New York, 17 Battery Place, New York City, January 11, 1912.

Hon. WILLIAM J. GAYNOR, Chairman, Board of Estimate and Apportionment, New York City:

Sir—In accordance with a request recently received, this Commission hereby make the following application for Corporate Stock Budget allowance:

For the six months July to December, 1912, and the four months January to April, 1913, for which this Commission will exist according to law, \$27,000.

Respectfully,

GEORGE A. SOPER, President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On January 11, 1912, the Metropolitan Sewerage Commission requested \$27,000 corporate stock for salaries and other expenses of the Commission from July 1, 1912, to April 30, 1913. In connection therewith we report:

The Commissioners have submitted the following estimate:

Commissioners, 5 at \$3,000 (10 months).....	\$12,500 00
Draftsman, 1 at \$1,800 (10 months).....	1,500 00
Stenographer, 1 at \$1,200 (10 months).....	1,000 00
Chemist, 1 at \$3,500 (7 months).....	2,041 62
Assistant Engineer, 1 at \$3,000 (7 months).....	1,750 00
Engineer, 1 at \$4,000 (5 months).....	1,666 65
Assistant Engineer, 1 at \$2,600 (5 months).....	1,083 30
Bacteriologist, 1 at \$2,400 (5 months).....	1,000 00
	\$22,541 57
Rent at \$1,450 (10 months).....	1,208 30
Supplies, etc.	3,250 00
	\$26,999 87

The appropriation for 1911 was \$34,000. The total to date is \$184,000. Chapter 200 of the Laws of 1910 provides that the work of the Commission shall terminate on May 1, 1913. The statute further provides that corporate stock of The City of New York may be authorized by the Board of Estimate and Apportionment without the concurrence or approval of any other Board or public body, as provided by section 169 of the Greater New York Charter as amended, in order to carry out the provisions of the act, but not to exceed \$75,000 in any one year.

We recommend the approval of the request in accordance with the resolution transmitted herewith. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 639 of the Laws of 1906, as amended by chapter 422 of the Laws of 1908, and chapter 200 of the Laws of 1910, the Board of Estimate and Apportionment hereby appropriates the sum of twenty-seven thousand dollars (\$27,000), to pay salaries and other expenses for the ten months, July 1, 1912, to April 30, 1913, inclusive, of the Commission known as the Metropolitan Sewerage Commission of New York, appointed to investigate and consider means for protecting the waters of New York Bay and vicinity against pollution, and that for the purpose of providing means therefor the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Corporate Stock Budget Committee, recommending the issue of \$65,000 corporate stock to provide means for the payment of the salaries of employees in the Topographical Bureau, under the jurisdiction of the President of the Borough of Brooklyn:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On January 17, 1912, the President of the Borough of Brooklyn requested corporate stock for the Topographical Bureau to the amount of \$65,000. In connection therewith we report as follows:

The yearly payroll of the Bureau, based upon the payroll of July 1, 1912, amounts to \$107,310. The amount charged against "Street Improvement Fund" from July 1, 1911, to July 1, 1912, was \$22,096 69. The amount charged against "Fund for Street and Park Openings" during the same period was \$23,771 98, making a total for the two funds of \$45,868 67.

It appears that \$65,000 is a reasonable corporate stock allowance for the Bureau. We recommend the adoption of the attached resolution approving the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

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 sixty-five thousand dollars (\$65,000), to provide means for the payment of salaries of the Topographical Bureau, under the jurisdiction of the President of the Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Corporate Stock Budget Committee, recommending the following issues of corporate stock:

\$53,000, for the payment of salaries and wages of employees in the Topographical Bureau, Borough of Richmond.

\$3,600, for the payment of the cost of vehicular transportation for the Topographical Bureau, Borough of Richmond.

\$1,500, for the payment of contingencies incurred by the Topographical Bureau, Borough of Richmond.

The Secretary presented the following report of the Corporate Stock Budget Committee, recommending the following issues of corporate stock:

\$53,000, for the payment of salaries and wages of employees in the Topographical Bureau, Borough of Richmond.

\$3,600, for the payment of the cost of vehicular transportation for the Topographical Bureau, Borough of Richmond.

\$1,500, for the payment of contingencies incurred by the Topographical Bureau, Borough of Richmond.

The Secretary presented the following report of the Corporate Stock Budget Committee, recommending the following issues of corporate stock:

\$53,000, for the payment of salaries and wages of employees in the Topographical Bureau, Borough of Richmond.

\$3,600, for the payment of the cost of vehicular transportation for the Topographical Bureau, Borough of Richmond.

\$1,500, for the payment of contingencies incurred by the Topographical Bureau, Borough of Richmond.

The Secretary presented the following report of the Corporate Stock Budget Committee, recommending the following issues of corporate stock:

\$53,000, for the payment of salaries and wages of employees in the Topographical Bureau, Borough of Richmond.

\$3,600, for the payment of the cost of vehicular transportation for the Topographical Bureau, Borough of Richmond.

\$1,500, for the payment of contingencies incurred by the Topographical Bureau, Borough of Richmond.

\$1,500, for the payment of contract obligations incurred by the Topographical Bureau, Borough of Richmond.
 \$1,500, for shoeing and boarding horses, including veterinary service, incurred by the Topographical Bureau, Borough of Richmond.
 \$1,000, for the purpose of purchasing supplies and materials for the Topographical Bureau, Borough of Richmond.
 \$400, for the maintenance, repair and storage of automobiles used by the Topographical Bureau, Borough of Richmond.

\$131,250, for the payment of salaries and wages in the Topographical Bureau, Borough of Queens.
 \$4,500, for the purchase of supplies and materials for the Topographical Bureau, Borough of Queens.
 \$700, for the purchase of furniture and fittings for the Topographical Bureau, Borough of Queens.
 \$1,000, for housing, storage and repairs of apparatus, machines, harness and vehicles (except automobiles), for the Topographical Bureau, Borough of Queens.
 \$7,000, for the liquidation of special contract obligations incurred by the Topographical Bureau of the Borough of Queens.
 \$2,400, for the purchase of two automobiles for the Topographical Bureau, Borough of Queens.
 \$1,000, for the maintenance, repair and storage of automobiles used by the Topographical Bureau, of the Borough of Queens.
 \$3,000, for vehicular transportation (except automobiles) for the Topographical Bureau, of the Borough of Queens.
 \$150, for the purchase of original equipment, etc., excepting automobiles, for the Topographical Bureau, of the Borough of Queens.

\$57,000, for the payment of salaries and wages of the Topographical Bureau, Borough of The Bronx.
 \$2,000 for the purchase of supplies and materials for the Topographical Bureau, Borough of The Bronx.
 \$500, to provide means for contingencies for the Topographical Bureau, Borough of The Bronx.
 \$300, for the payment of special contract obligations incurred by the Topographical Bureau, Borough of The Bronx.
 \$100, for housing, storage and repair of apparatus, etc., excepting automobiles, for the Topographical Bureau, Borough of The Bronx.
 \$100, for the purchase of original equipment, etc., excepting automobiles, for the Topographical Bureau, Borough of The Bronx.
 \$200, for the purchase of furniture and fittings for the Topographical Bureau, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—In connection with the estimates of corporate stock requirements for the office of the President of the Borough of The Bronx, President of the Borough of Queens, and the office of the President of the Borough of Richmond, we submit herewith the following, with reference to the requests so far as they apply to the requirements of the respective Topographical Bureaus in the respective Boroughs:

<i>President, Borough of The Bronx.</i>	
Amount requested	\$85,000 00
Amount recommended	60,200 00
<i>President, Borough of Queens.</i>	
Amount requested	\$231,541 84
Amount recommended	150,000 00
<i>President, Borough of Richmond.</i>	
Amount requested	\$62,500 00
Amount recommended	62,500 00

An analysis of the fund for the Topographical Bureau in the office of the President of the Borough of The Bronx shows that there was available in July, 1911, the sum of \$97,886.23, of which \$80,428.64 was expended to July 1, 1912, leaving a balance of \$17,457.59. The amount recommended is substantially the amount requested, less the available balance on July 1, 1912.

In the Borough of Queens there was available after the adoption of the 1911 Corporate Stock Budget the sum of \$212,286.38, of which \$166,974.14 was expended to July 1, 1912, leaving a balance of \$45,312.24. An analysis of the work performed and contemplated shows that there is still a great amount of preliminary work to be completed, in addition to a great quantity of public improvement and street and park opening matters. The allowance recommended by your Committee will permit of an increase in expenditure of about \$30,000 more than the actual disbursements of the past year. This will make a total available for the year of \$195,000, against \$212,000 in 1911.

In the Borough of Richmond there was available in July, 1911, the sum of \$160,582.02, of which there was expended to July 1, 1912, \$135,316.96, leaving a balance of \$25,265.06. The preliminary field work in the Borough has been nearly completed, so that the President proposes a substantial reduction in the cost of the work for 1912-1913. The estimated cost of the Bureau for the year is \$62,500, in addition to the estimated balance, making in all \$87,765.06 for the cost of the work. This is a reduction of \$48,000 below the actual expenditures for the past year.

We recommend approval of the attached resolutions providing for the recommendations as stated. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

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 fifty-three thousand dollars (\$53,000), in addition to amounts heretofore authorized, to provide means for the payment of salaries and wages of employees in the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of The Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 three thousand six hundred dollars (\$3,600), to provide means for the payment of the cost of vehicular transportation, except transportation by automobile, for the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand five hundred dollars (\$1,500), to provide means for the payment of contingencies incurred by the Topographical Bureau in the Borough of

Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand five hundred dollars (\$1,500), to provide means for the payment of contract obligations incurred by the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand five hundred dollars (\$1,500), to provide means for shoeing and boarding horses, including veterinary service, incurred by the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand dollars (\$1,000), to provide means for the purchase of supplies and materials for the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 four hundred dollars (\$400), to provide means for the maintenance, repairs and storage of automobiles of the Topographical Bureau in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 one hundred and thirty-one thousand two hundred and fifty dollars (\$131,250), in addition to amounts heretofore authorized, to provide means for the payment of salaries and wages for the Topographical Bureau in the Borough of Queens, under the jurisdiction of the President of the Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 four thousand five hundred dollars (\$4,500), to provide means for the purchase of supplies and materials for the Topographical Bureau, under the jurisdiction of the President of the Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

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 seven hundred dollars (\$700), to provide means for the purchase of furniture and fittings in the Topographical Bureau in the Borough of Queens, under the jurisdiction of the President of the Borough of Queens, and that when

therefrom, in order to permit the construction of a viaduct in the central portion of Park avenue connecting the present roadways of Park avenue at 40th street with the proposed elevated street around the new Grand Central station.

On May 16, 1912, the Board adopted the following resolution:

"Resolved, That the Board of Estimate and Apportionment hereby approves the working plans, elevations and details of and the specifications for the proposed viaduct or bridge to be constructed by The City of New York, carrying the central portion of Park avenue from the northerly line of 40th street to the northerly line of 42d street, and to connect with the elevated roadway or driveway provided for in chapter 425 of the Laws of 1903, as amended by chapter 555 of the Laws of 1910, which said working plans, elevations and details and specifications were transmitted to the Board of Estimate and Apportionment by the President of the Borough of Manhattan by communication dated May 7, 1912."

As was fully shown at the time of the adoption of the change of grade and the approval of the plans for the viaduct, this structure is designed to connect Park avenue, south of the Grand Central station, with Park avenue, as reconstructed and improved to the north of the station. Work upon the elevated roadway around the station building is rapidly progressing, and it is important that the City take the necessary steps to construct the viaduct to connect with it, in order that the public may have the benefit of this new and important thoroughfare. The President of the Borough of Manhattan has requested an issue of corporate stock in the sum of \$350,000, and your Committee recommends that such corporate stock issue be authorized by the Board at this time. Respectfully submitted,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to section 47 of the Greater New York Charter, as amended, hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and fifty thousand dollars (\$350,000), to provide means for the construction of a viaduct in the central portion of Park avenue connecting the present roadways of Park avenue at 40th street, with the proposed elevated street around the new Grand Central station, under the jurisdiction of the President of the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Court of General Sessions, New York County, requesting, and report of the Comptroller recommending, the modification of Salary Schedule 2188 for said Court for the year 1912, in order to provide for one Deputy Clerk at \$3,000 per annum:

Court of General Sessions of the Peace, County of New York, Clerk's Office, June 17, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York, 280 Broadway, New York City:

Dear Sir—I beg to notify you that the Judges of the Court of General Sessions, New York County, have this day promoted Thomas W. Goggin, of No. 1141 Forest avenue, Borough of The Bronx, New York City, from the position of Record Clerk to that of Deputy Clerk of said Court, at an annual salary of \$4,000, such promotion to take effect on the 18th day of June, 1912. Said promotion has been made to fill a position created by chapter 532 of the Laws of 1912, a copy of which is herewith enclosed.

The amount needed for the remainder of the year to pay the salary of said Deputy Clerk will be \$2,144.44.

I would suggest that the provisions of the Charter meet the situation, and that such payment should be considered a county charge and be paid as such out of special revenue bonds issued for the purpose. Very respectfully yours,

EDWARD R. CARROLL, Clerk of Court.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 17, 1912, the Judges of the Court of General Sessions promoted Thomas W. Goggin, a Record Clerk, at \$2,000 per annum, to Deputy Clerk, at \$4,000 per annum. On the same day the Clerk of the Court requested \$2,144.44 to pay the increase in salary from June 18, 1912, to December 31, 1912. In connection therewith I report as follows:

Chapter 532 of the Laws of 1912 directs the Judges of the Court of General Sessions of the City and County of New York to appoint thirteen Deputy Clerks. Twelve Deputy Clerks were already in office. The statute added one to the number.

The statute of 1912 does not specify any salary. Chapter 1004 of the Laws of 1895 amended chapter 410 of the Laws of 1892 consolidating the towns of Morrisania, West Farms and Kingsbridge with The City of New York. Section 1531 of the Consolidation Act was amended to read as follows:

"The Clerk of the Court of General Sessions shall receive a salary of five thousand dollars per annum for his services as such. The Deputy Clerk shall receive a salary of three thousand dollars per annum. * * *"

That provision has not since been amended or repealed by the Legislature.

The Deputy Clerks of the Court of General Sessions now receive \$4,000 per annum, each. That rate was fixed by resolution of the Board of Estimate and Apportionment for ten incumbents in the 1911 Budget and for one additional incumbent on July 18, 1911.

The appointment of the Deputy Clerk is mandatory. Funds will be provided to meet the salary at the rate of \$3,000 per annum, from July 15, 1912, to December 31, 1912. The sum of \$1,375 additional will be required. An unassigned balance of \$2,600 remains in Schedule No. 2188, Personal Service, Administration, Salaries, Regular Employees. Of the increase \$1,188.66 can be met by a revision of the schedules. It will be necessary for the Comptroller to issue special revenue bonds for \$186.34, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution modifying the schedules to provide for one Deputy Clerk, at \$3,000 per annum. Respectfully,

WM. A. PRENDERGAST, Comptroller

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Court of General Sessions, County of New York, for the year 1912, as follows:

Court of General Sessions, County of New York.

	Paid from Budget Appropriation.	Paid from Special Revenue Bonds.	Total.
Personal Service, Administration—			
2188 Salaries, Regular Employees:			
Judges, 7 at \$17,500.....	\$122,500 00	.....	\$122,500 00
Clerk.....	5,000 00	.....	5,000 00
Deputy Clerk, 12 at \$4,000.....	48,000 00	.....	48,000 00
Deputy Clerk, at \$3,000.....	2,600 00	400 00	3,000 00
Assistant Clerk.....	4,000 00	.....	4,000 00
Record Clerk, 8 at \$2,000.....	16,000 00	.....	16,000 00
Record Clerk.....	1,500 00	.....	1,500 00
Stenographer, 6 at \$2,500.....	15,000 00	.....	15,000 00
Interpreter, 5 at \$2,500.....	12,500 00	.....	12,500 00
Warden, Grand Jury, 2 at \$2,000.....	4,000 00	.....	4,000 00
Clerk to Judge, 7 at \$2,500.....	17,500 00	.....	17,500 00
Attendants, 56 at \$1,800.....	100,800 00	.....	100,800 00

	Paid From Budget Appropriation.	Paid From Special Revenue Bonds.	Total.
Attendant, 5 at \$1,500.....	7,500 00	.....	7,500 00
Attendant.....	1,200 00	.....	1,200 00
Schedule Total.....			\$358,500 00
Tax Levy Allowance.....			\$358,100 00
Rate of Special Revenue Bond Allowance.....			400 00
Total Allowance.....			\$358,500 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Supervisor of the City Record requesting, and report of the Comptroller recommending, the modification of the Salary Schedule 710 for the Board of City Record, to take effect July 1, 1912, in order to increase two Bookkeepers from \$2,100 to \$2,250 each per annum by the reduction of the salary of the Editor from \$3,000 to \$2,700, and to increase a Clerk from \$300 to \$480 per annum, which is to be taken from the unassigned balance:

The City of New York, Board of City Record, Office of the Supervisor, 13-21 Park row, June 26, 1912.

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

Sir—Pursuant to the resolutions adopted by the Board of City Record under dates of March 5 and May 8, 1912, respectively, I respectfully request a modification of the schedule supporting the appropriation budget for the year 1912 made to the Board of City Record, entitled, "Board of City Record, Administration, 710, 1912, Salaries, Regular Employees," in the following particulars:

Eliminate the Lines Reading:

Editor (1), at \$3,000.....	\$3,000 00
Bookkeeper (2), at \$2,100.....	4,200 00
Clerk (1), at \$480.....	480 00
Clerk (2), at \$300.....	600 00
Balance unassigned.....	870 00
	\$9,150 00

Insert in Lieu Thereof:

Editor (1), at \$2,700.....	\$2,700 00
Bookkeeper (2), at \$2,250.....	4,500 00
Clerk (2), at \$480.....	960 00
Clerk (1), at \$300.....	300 00
Balance unassigned.....	690 00
	\$9,150 00

These changes will not increase the total appropriation of the Board of City Record for the year 1912, as fixed by the Budget, and are made necessary to provide for the promotion of one First Grade Clerk and the redistribution of office work.

It is respectfully requested that this readjustment in salaries to correspond with the changes in the work of the office be made to take effect July 1, 1912.

Respectfully, DAVID FERGUSON, Supervisor of the City Record.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1912, the Supervisor of the Board of City Record requested modification of the 1912 schedule in his office entitled, "Personal Service, Administration, No. 710, Salaries, Regular Employees." In connection therewith I report as follows:

It is proposed to increase the salary of two bookkeepers, William Viertel and Edward J. McPike, from \$2,100 to \$2,250 per annum each. In order to provide the \$300 necessary for these increases, it is proposed to reduce the salary of the Editor from \$3,000 to \$2,700 per annum. The Supervisor states that this readjustment of salaries is made to correspond with the redistribution of certain work connected with the publication of the City Record. The proposed changes conform with the provisions of the resolution adopted by your Board governing increases in salaries.

Grades of positions for the increases were established by your Board on March 21, 1912, and concurred in by the Board of Aldermen on June 11, 1912.

It is also proposed to increase the salary of Nathan Paul, a Clerk, from \$300 to \$480 per annum, taking the necessary \$180 from a balance unassigned. Mr. Paul was appointed on June 19, 1910, at his present rate.

The following table shows the line item changes in detail:

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
710	Editor, 1 at \$3,000.....	\$3,000 00	.....	\$1,500 00	.....
	Editor, at \$2,700.....	.....	\$2,700 00	.....	\$1,350 00
	Bookkeeper, 2 at \$2,100.....	4,200 00	.....	2,100 00	.....
	Bookkeeper, at \$2,250.....	.....	4,500 00	.....	2,250 00
	Clerk, at \$480.....	.....	480 00	.....	240 00
	Clerk, 2 at \$300.....	300 00	.....	150 00	.....
	Balance unassigned, \$870.....	180 00	.....	90 00	.....
		\$7,680 00	\$7,680 00	\$3,840 00	\$3,840 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Board of City Record, City of New York, for the year 1912, to be effective as of July 1, 1912, as follows:

BOARD OF CITY RECORD, CITY OF NEW YORK.

Personal Service.

Administration—

710 Salaries, Regular Employees:		
Supervisor.....		\$5,000 00
Deputy Supervisor.....		2,500 00
Secretary and Chief Clerk.....		2,500 00
Editor.....		2,700 00
Stationer.....		2,500 00
Bookbinder.....		2,500 00
Inspector with technical knowledge of printing.....		1,500 00
Bookkeeper.....		2,550 00
Bookkeeper, 2 at \$2,250.....		4,500 00
Examiner.....		1,800 00
Examiner.....		1,650 00
Examiner.....		1,500 00
Stenographer and Book-typewriter.....		1,500 00
Stenographer and Book-typewriter.....		900 00
Stenographer and Typewriter.....		7,750 00
Stenographer and Typewriter.....		600 00
Book Typewriting Copyist.....		1,200 00
Clerk, 2 at \$1,200.....		2,400 00
Clerk.....		1,050 00
Clerk.....		900 00
Clerk.....		750 00
Clerk, 2 at \$480.....		960 00
Clerk.....		300 00
Storekeeper.....		1,950 00
Laborer, 2 at \$720.....		1,440 00
Balance unassigned.....		690 00
		\$46,590 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communications from the County Clerk of Kings County relative to, and report of the Comptroller recommending, the modification of Salary Schedule No. 2318, for the office of said County Clerk, and No. 2300, for the County Court, Kings County, to be effective as of July 1, 1912, providing for the transfer of \$2,500 from No. 2300 (caused by the vacancy in the position of Clerk), to No. 2318, as an unassigned balance:

County Clerk's Office, County of Kings, Hall of Records, Brooklyn, N. Y., May 9, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York:

My dear Comptroller—Pursuant to our conversation of some days ago, I officially request and urge your good offices in securing an increase for seven employees in this office, total increase to be \$3,000 per annum. The persons affected by this increase are:

	Present Salary.	Proposed Increase.
Two Comparers	\$1,000 00	\$500 00 each.
Chief Clerk of Old Records.....	1,100 00	400 00
Assistant Clerks of Old Records, 2.....	1,000 00	500 00 each.
Document Searchers, 2.....	1,200 00	300 00 each.

I desire to state that four of these employees are receiving salaries of \$1,000, which is the lowest paid salary in this office. These men, as you know, do the same work as in the Register's office, where the Register's Clerks get \$1,500. The Comparers, Document Searchers and Clerks, classified in the same group, in the County Clerk's office in New York, doing similar work, receive from \$1,500 to \$2,000 a year. And while they are in a group or grade higher than that of Custodian, the fact remains that the Custodians receive a compensation of \$1,200 per annum, whereas these Clerks receive but \$1,000.

All of these employees are very efficient. Their salaries have not been increased since this office was made a salary office. In view of the character of the work that they perform I am impressed that the interests of the office would be greatly enhanced by increasing their compensation, which can be accomplished with your help, under section 56 of the City Charter.

If you desire that I should present this matter before the Board of Aldermen and the other members of the Board of Estimate, kindly let me know, but I feel that you can bring it about probably through some unexpended balances, which will obviate the necessity of asking for additional revenue bonds.

An early reply will be greatly appreciated by, very sincerely yours,
 CHAS. S. DEVOY, County Clerk, Kings County.

County Clerk's Office, County of Kings, Hall of Records, Brooklyn, N. Y., May 16, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York:

My Dear Comptroller—Referring to my application to you of May 9, 1912, wherein I asked for a total increase of \$3,000 per annum, to increase the salaries of seven persons employed in this office for some time, from \$1,000, \$1,100 and \$1,200 to \$1,500 per annum, I find that from the appropriation for Clerks in the County Court I will turn back to the City unused the sum of \$3,000, for the reason that I see no necessity of appointing at this particular time any additional Clerks in that Department. I would therefore respectfully request that this amount of \$3,000 be transferred to the account of the County Clerk of Kings County, and that I may be permitted to use this money for the increases as outlined to you in my letter of May 9.

The money to be returned is from the 1912 account, County Court of Kings County, No. 2300, Budget Schedule Line, Clerks, six at \$2,500, \$15,000.

Kindly use your best endeavors to have this brought about as quickly as possible, and I will appreciate it very much. Very sincerely yours,

CHARLES S. DEVOY, County Clerk, Kings County.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 16, 1912, the County Clerk of Kings County requested the transfer to his office of \$2,500 from the County Court, Kings County. In connection therewith I report as follows:

The County Clerk has a dual jurisdiction over his office and the clerical force of the Kings County Court. By reason of the fact that he has effected a large saving in the expense of the administration of the office of the County Court, due to consolidation of positions and a more economical arrangement and distribution of the work, he states that \$3,000 appropriated to the Court for salaries will not be required. He further states that the volume of work in his office has increased greatly, and that it is necessary to obtain additional help to keep up with the work and maintain efficiency.

In the 1912 schedule for the County Court, the position of Clerk at \$2,500 is vacant, and the County Clerk states that the transfer of the salary of the position will meet the present needs of his office.

The \$2,500 is to be scheduled as a balance unassigned, and the County Clerk will later request a modification of the schedule to provide for the new positions.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
2318	Balance Unassigned		\$2,500 00		\$1,250 00
2300	Clerk, 6 at \$2,500.....	\$2,500 00		\$1,250 00	
		\$2,500 00	\$2,500 00	\$1,250 00	\$1,250 00

I recommend the adoption of the attached resolutions granting the request. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the County Clerk, Kings County, for the year 1912, to be effective as of July 1, 1912, as follows:

COUNTY CLERK, KINGS COUNTY.
 Personal Service.

Administration—

2318 Salaries, Regular Employees:	
County Clerk	\$12,000 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
Notarial Clerk	2,250 00
Cashier	2,000 00
Secretary	1,500 00
Law Clerk	2,500 00
Satisfaction Clerk	2,000 00
Equity Clerk in Charge.....	2,000 00
Equity Clerk, 3 at \$1,500.....	4,500 00
Docket Clerk in Charge.....	2,000 00
Docket Clerk, 2 at \$1,500.....	3,000 00
Index Clerk, 3 at \$1,500.....	4,500 00
Document Searcher, 2 at \$1,200.....	2,400 00
Stenographer	1,200 00
Chief Old Records.....	1,100 00
Assistant to Chief, 2 at \$1,000.....	2,000 00
Comparer, 2 at \$1,000.....	2,000 00
Custodian, 3 at \$1,200.....	3,600 00

Messenger, 2 at \$800.....	1,600 00
Telephone Operator	720 00
Unassigned balance	2,500 00
	\$71,370 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the County Court, Kings County, for the year 1912, to be effective as of July 1, 1912, as follows:

COUNTY COURT, KINGS COUNTY.
 Personal Service.

Administration—

2300 Salaries, Regular Employees:	
County Judge, 2 at \$10,000.....	\$20,000 00
Chief Clerk	7,500 00
Deputy Clerk	3,600 00
Confidential Clerk, 2 at \$2,000.....	4,000 00
Stenographer, 2 at \$3,600.....	7,200 00
Stenographer, 2 at \$3,000.....	6,000 00
Clerk, 4 at \$3,500.....	14,000 00
Clerk	3,200 00
Clerk, 2 at \$2,900.....	5,800 00
Clerk, 5 at \$2,500.....	12,500 00
Chief Court Attendant.....	3,500 00
Warden Grand Jury.....	3,200 00
Interpreter, 2 at \$2,500.....	5,000 00
Detective	3,000 00
Detective, 3 at \$2,500.....	7,500 00
Court Attendant, 26 at \$1,800.....	46,800 00
Stenographer and Typewriter.....	1,200 00
Messenger	1,200 00
Telephone Operator	900 00
	\$156,100 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the modification of schedules Nos. 484 and 551 for said Department, to be effective July 15, 1912, involving the transfer of \$1,100:

The City of New York, Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, July 2, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York:
 Dear Sir—In order that the Department may purchase necessary supplies and materials for the High Pressure Fire Station, Borough of Brooklyn, a transfer of \$1,100 is required, and I respectfully request that the Board of Estimate and Apportionment make such transfer from No. 551 to No. 484, and modify the supporting schedules as follows:

Contingencies, Water Supply.		
Pumping.		
Manhattan and The Bronx.....		\$300 00
Brooklyn		125 00
Queens		600 00
Richmond		225 00
Supplies and Materials, Water Supply.		
Pumping.		
Manhattan and The Bronx.....		\$11,010 00
Brooklyn		1,900 00
Queens		4,650 00
Richmond		9,000 00

Yours truly,
 J. W. F. BENNETT, Deputy and Acting Commissioner.
 Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 2, 1912, the Commissioners of Water Supply, Gas and Electricity requested modification of two schedules for supplies and materials, and for contingencies, in his Department, for 1912, involving a transfer of \$1,100. In connection therewith I report as follows:

The credit transfer is to Supplies and Materials, No. 484. The Budget allowance for the account was not segregated, but supported by a schedule apportioning the total allowance of \$100,780, to the several functions and Boroughs. The allowance of \$800 for water supply, pumping, Borough of Brooklyn, was over-encumbered in the first six months of the year.

The debit transfer is from Contingencies, Water Supply, No. 551, Pumping. The \$2,350 appropriated for this account was also supported by a schedule, the amount apportioned to the Borough of Brooklyn being \$1,225. The total encumbrances to July 1, 1912, against the Brooklyn allowance were \$41.10; therefore, the \$1,100 is available for transfer.

I recommend the adoption of the attached resolutions granting the request and modifying the existing schedules in conformity therewith. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Water Supply, Gas and Electricity, for the year 1912, as follows:

FROM		
Contingencies, Water Supply.		
551 Pumping, Brooklyn		\$1,100 00
TO		
Supplies and Materials, Water Supply.		
484 Pumping, Brooklyn		\$1,100 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of schedules, as revised, for the Department of Water Supply, Gas and Electricity for the year 1912, to be effective as of July 15, 1912, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

	Paid From Appropriation.	Paid From Stock.	Paid From Water Revenue.	Total.
484 Supplies and Materials—				
General Administration	\$3,125 00			\$3,125 00
Tax Levy Allowance.....				\$3,125 00
Total Allowance, General Administration.....				\$3,125 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Water Supply—Administration:				
General	\$230 00	\$1,700 00		\$1,930 00
Manhattan and The Bronx	210 00			210 00
Brooklyn			\$100 00	100 00
Queens	65 00			65 00
Richmond	210 00			210 00
Schedule Total				\$2,515 00
Tax Levy Allowance				\$715 00
Corporate Stock Allowance				1,700 00
Water Revenue Allowance				100 00
Total Allowance				\$2,515 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Design		\$3,100 00		\$3,100 00
Corporate Stock Allowance				\$3,100 00

	Paid From Tax Levy Appropriations.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Collection and Storage—				
Croton Watershed (General)	\$17,050 00			\$17,050 00
Croton Watershed (purchase of chloride of lime and copper sulphate)	16,000 00			16,000 00
Brooklyn Watershed		\$16,500 00		16,500 00
Schedule Total				\$49,550 00
Tax Levy Allowance				\$33,050 00
Water Revenue Allowance				16,500 00
Total Allowance				\$49,550 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Pumping—				
Manhattan and The Bronx	\$11,010 00			\$11,010 00
Brooklyn	1,900 00	\$27,100 00		29,000 00
Queens	4,650 00			4,650 00
Richmond	9,000 00			9,000 00
Schedule Total				\$53,660 00
Tax Levy Allowance				\$26,560 00
Water Revenue Allowance				27,100 00
Total Allowance				\$53,660 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Filtration		\$1,200 00		\$1,200 00
Corporate Stock Allowance				\$1,200 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Distribution—				
Manhattan and The Bronx	\$22,750 00	\$60 00		\$22,810 00
Brooklyn	175 00	40 00	\$12,600 00	12,815 00
Queens	2,000 00	1,400 00		3,400 00
Richmond	4,275 00			4,275 00
Schedule Total				\$43,300 00
Tax Levy Allowance				\$29,200 00
Corporate Stock Allowance				1,500 00
Water Revenue Allowance				12,600 00
Total Allowance				\$43,300 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Analyzing and Testing	\$4,000 00	\$2,000 00		\$6,000 00
Tax Levy Allowance				\$4,000 00
Water Revenue Allowance				2,000 00
Total Allowance				\$6,000 00
Schedule Total, Water Supply				\$159,325 00
Tax Levy Allowance				\$93,525 00
Corporate Stock Allowance				7,500 00
Water Revenue Allowance				58,300 00
Total Allowance, Water Supply				\$159,325 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Water Revenue Collection—				
Manhattan	\$2,200 00			\$2,200 00
The Bronx	1,000 00			1,000 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Brooklyn			\$2,000 00	2,000 00
Queens	100 00			100 00
Richmond	150 00			150 00
Schedule Total				\$5,450 00
Tax Levy Allowance				\$3,450 00
Water Revenue Allowance				2,000 00
Total Allowance, Water Revenue Collection				\$5,450 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Illumination, Power and Heat Control				
	\$1,780 00			\$1,780 00
Tax Levy Allowance				\$1,780 00
Total Allowance, Illumination, Power and Heat Control				1,780 00
Schedule Total, Supplies and Materials				\$169,680 00
Tax Levy Allowance				\$101,880 00
Corporate Stock Allowance				7,500 00
Water Revenue Allowance				60,300 00
Total Allowance, Supplies and Materials				\$169,680 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Contingencies, Water Supply.				
551 Pumping—				
Manhattan and The Bronx	\$300 00			\$300 00
Brooklyn	125 00	\$1,500 00		1,625 00
Queens	600 00			600 00
Richmond	225 00			225 00
Schedule Total				\$2,750 00
Tax Levy Allowance				\$1,250 00
Water Revenue Allowance				1,500 00
Total Allowance				\$2,750 00

	Paid From Tax Levy Appropriation.	Paid From Corporate Stock.	Paid From Water Revenue.	Total.
Contingencies, Water Supply.				
551 Pumping—				
Manhattan and The Bronx	\$300 00			\$300 00
Brooklyn	125 00	\$1,500 00		1,625 00
Queens	600 00			600 00
Richmond	225 00			225 00
Schedule Total				\$2,750 00
Tax Levy Allowance				\$1,250 00
Water Revenue Allowance				1,500 00
Total Allowance				\$2,750 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Comptroller recommending, approval of the modification of salary schedule No. 2096 to provide for a part of the salary of a Transitman and Computer, at \$1,650 per annum, employed in the office of said Borough President:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 7, 1912.
Board of Estimate and Apportionment, 277 Broadway, New York City:
 Gentlemen—I would ask that a transfer of \$525, to take effect July 1, 1912, be made from Fund No. 2096 to Fund No. 2095.
 Technical assistance will be required during and after the contract tests of the Clifton Refuse Destructor, in the Borough of Richmond. Cortland C. Van Vechten, Transitman and Computer (salary \$1,650 per annum), is now employed on the construction of this plant (Corporate Stock Fund C. P. R.—3B), and I desire to re-arrange our funds so that part of his time may be charged against our regular maintenance appropriation.
 On July 1, 1912, one Foreman will be promoted from \$1,050 to \$1,200 per annum, to fill a vacancy in the latter grade. This will leave one-half the salary of a Foreman at \$1,050 (or \$525) available for our purpose. Yours respectfully,
 GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On June 7, 1912, the President of the Borough of Richmond requested modification of two 1912 salary schedules, involving a transfer of \$525. In connection therewith I report as follows:
 Under the terms of a contract between the City and the erectors of a new refuse destructor at Clifton, Borough of Richmond, technical assistance will be required. A Transitman and Computer, at \$1,650, has been employed for some time on the work of design and construction of destructors in the Borough, and it is proposed to provide for a part of his salary from budget funds. His compensation in the past has been paid from corporate stock funds exclusively.

There is a vacancy in the schedule entitled Street Cleaning, Maintenance and Final Disposition, No. 2096. Salaries, Regular Employees, due to the promotion of a Foreman from \$1,050 to \$1,200. It is the desire of the President to make the \$525 released by the vacancy available for the Transitman and Computer. The amount may properly be made available in No. 2096, thereby making unnecessary a transfer and modification of more than one schedule.
 No increase in compensation is involved.

I recommend the adoption of the attached resolution approving the request as set forth above. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the President of the Borough of Richmond for the year 1912 as follows:

PRESIDENT, BOROUGH OF RICHMOND.
Personal Service—Street Cleaning.

	Paid from Tax Levy.	Paid from Corporate Stock.	Total.
Maintenance and Final Disposition—			
2096 Salaries, Regular Employees:			
Transitman and Computer	\$525 00	\$1,125 00	\$1,650 00
District Inspector, 3 at \$1,500	4,500 00		4,500 00
Stable Inspector, 2 at \$1,500	3,000 00		3,000 00
Foreman, 7 at \$1,200	8,400 00		8,400 00
Foreman, 3 at \$1,050	3,150 00		3,150 00
Assistant Foreman	900 00		900 00
Painter	1,000 00		1,000 00

	Paid from Tax Levy.	Paid from Corporate Stock.	Total.
Amount received by Foreman at \$1,050 for the purpose of paying part time of Transitman and Computer at \$1,650, from tax levy appropriation.....	525 00	.....	525 00
Schedule Total			\$23,125 00
Tax Levy Allowance.....			\$22,000 00
Corporate Stock Allowance.....			1,125 00
Total Allowance			\$23,125 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the commanding officer of Troop F, Second Cavalry, National Guard, New York, requesting that provision be made for the compensation of an Armorer, from June 1 to December 31, 1912, together with a report of the Comptroller recommending approval of said request, by the adoption of a schedule of wages to be effective as of June 15, 1912:

Troop "F," Second Cavalry, National Guard, New York, Borough Hall, New Brighton, N. Y., May 31, 1912.
Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York, 280 Broadway, New York City:

Sir—Pursuant to M. L. 187, I have the honor to report that I have appointed Charles L. Lowe as Armorer in the Armory of Troop "F," Second Cavalry, N. G., N. Y., said appointment to take effect June 1, 1912. Very respectfully,
A. H. PLATT, Second Lieutenant, Second Cavalry, Commanding.

Approved. JOHN F. O'RYAN, Major-General.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On May 31, 1912, the Commanding Officer of Troop "F," Second Cavalry, N. G., N. Y., requested that provision be made for the compensation of an Armorer from June 1 to December 31, 1912. In connection therewith I report as follows:

Troop "F," Second Cavalry, is a new organization in the National Guard, created pursuant to the provisions of Special Order No. 84 of the Adjutant-General's office of the State of New York, issued on April 5, 1912. The organization has been assigned to the Borough of Richmond and the Major-General, Commanding, Division, National Guard, on July 9, 1912, certified that room "Z" in the Borough Hall of Richmond is used by the organization as an armory.

Section 187 of the Military Law, as amended by chapter 102 of the Laws of 1911, reads, in part, as follows:

There shall be allowed for each armory, and for the headquarters of the division, the naval militia and of each brigade, one armorer.

Pursuant to the provisions of this section, the Commanding Officer has appointed an Armorer and requests that provision be made for his payment from June 1 to December 31, 1912, at the rate of \$4 per day, as allowed by the Military Law.

The \$856 necessary to provide for the compensation will be provided for by the Comptroller by the issue of special revenue bonds, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

The adoption of the attached resolution will provide a schedule for the fund to permit of a proper audit. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for other than Budget funds for the National Guard and Naval Militia, for the year 1912, to be effective as of June 1, 1912, as follows:

NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF RICHMOND.

Troop "F," Second Cavalry.	
Wages, Regular Employees, Special Revenue Bond Force—	
Armorer, 1 at \$4 per day (214 days).....	\$856 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bellevue and Allied Hospitals requesting, and report of the Comptroller recommending, the modification of salary schedules 195, 197, 201, 202, 206, 208, 211, 213, 214 and 216 of said Department, providing for the elimination of certain positions and the addition of others, to take effect as of July 1, 1912:

Bellevue and Allied Hospitals, Office of the Board of Trustees, 1st Avenue and 26th Street, New York, June 20, 1912.

Hon. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Sir—The Trustees of Bellevue and Allied Hospitals have the honor to request the amendment of the salary schedules for the current year in accordance with the attached statement, the change to take effect as of June 1, 1912. The changes are few and of a minor character, and are explained at the bottom of each of the schedules affected.

To meet these modifications, it is requested that transfers of funds be made as follows:

FROM	TO	
213 Salaries, Regular Employees.....		\$580 00
195 Salaries, Regular Employees.....		\$150 00
197 Salaries, Regular Employees.....		330 00
201 Salaries, Regular Employees.....		100 00
		\$580 00

Respectfully,
J. K. PAULDING, Secretary, Board of Trustees.
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On June 20, 1912, the Board of Trustees of Bellevue and Allied Hospitals requested modification of nine salary schedules and transfers within the appropriations for 1912, involving four schedules. In connection therewith I report as follows:

In No. 195—General Administration, Executive, Salaries, Regular Employees,—it is proposed to eliminate one Stenographer, at \$900 per annum, and add one Stenographer, at \$1,050, being an increase of \$150. Money to meet the increase is transferred from schedule No. 213.

In No. 197—Bellevue Hospital, Administration, Salaries, Regular Employees,—it is proposed to eliminate the following: 1 Clerk at \$600 per annum, 1 Hospital Clerk at \$600 per annum, 1 Hospital Clerk at \$480 per annum, total, \$1,680; and to add 1 Clerk at \$750 per annum, 1 Hospital Clerk at \$720 per annum, 1 Hospital Clerk at \$540 per annum, total, \$2,010. The net increase is \$330, which is met by a transfer of \$330 from schedule No. 213.

In No. 201—Bellevue Hospital, Operation, Salaries, Regular Employees— it is proposed to eliminate 1 Housekeeper at \$900, and to add 1 Dietitian at \$1,000 per annum. The increase of \$100 is met by transferring \$100 from account No. 213.

In No. 202—Bellevue Hospital, Operation, Salaries, Temporary Employees,—it is proposed to increase 1 cook at \$480, seven months, to \$720; to reduce 1 cook at \$480,

twenty-four months to twelve months. Other changes involve rearrangement of time to meet current conditions. No change is made in the total.

In No. 206—Bellevue Hospital, Nurses' Residence, Salaries, Temporary Employees,—time is rearranged to meet current conditions. No change is made in the total.

In No. 208—Gouverneur Hospital, Operation, Salaries, Temporary Employees,—time is rearranged to meet current conditions. No change is made in the total.

In No. 211—Harlem Hospital, Operation, Salaries Temporary Employees—time is rearranged; no change in the total.

In No. 213—Fordham Hospital, Operation, Salaries Regular Employees—one Physician to Out-Patients at \$600 per annum is eliminated. The following amounts are transferred: \$150 to No. 195; \$330 to No. 197; \$100 to No. 201. \$20 is carried as unassigned balance. Total \$600.

In No. 214—Fordham Hospital, Operation, Salaries Temporary Employees—time is rearranged; no change is made in total of the accounts.

A transfer of \$580 is requested from No. 213 to Nos. 195 to 197 and 201. The detail is stated in the foregoing.

I recommend the adoption of the attached resolution granting the request as of July 1, 1912. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised for Bellevue and Allied Hospitals for the year 1912, to take effect as of July 1, 1912, as follows:

BELLEVUE AND ALLIED HOSPITALS.

Personal Service, General Administration.

Executive—		
195 Salaries, Regular Employees:		
General Medical Superintendent		\$6,000 00
Director of Laboratories		5,000 00
General Superintendent of Training Schools.....		2,500 00
Secretary to President		2,500 00
Purchasing Agent		1,800 00
Stenographers, 2 at \$1,050.....		2,100 00
Stenographers, 4 at \$750.....		3,000 00
Typewriting Copyist		600 00
Egg Candler		1,000 00
Foreman of Drivers		900 00
Supervising Engineer		2,000 00
Architectural Draftsman		1,500 00
		\$28,900 00

DEPARTMENT OF BELLEVUE AND ALLIED HOSPITALS.

Personal Service, Bellevue Hospital.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Administration—			
197 Salaries, Regular Employees:			
Assistant Medical Superintendent	\$3,500 00	.....	\$3,500 00
Assistant Medical Superintendent	2,500 00	.....	2,500 00
Assistant Superintendent	2,000 00	.....	2,000 00
Chief Investigator	1,200 00	.....	1,200 00
Chaplain, 4 at \$450.....	1,800 00	.....	1,800 00
Superintendent of Training School	1,800 00	.....	1,800 00
Assistant Superintendent of Training School	1,200 00	.....	1,200 00
Interpreter	1,000 00	.....	1,000 00
Inspector	720 00	.....	720 00
Employment Agent	900 00	.....	900 00
Clerk	900 00	.....	900 00
Clerk	750 00	.....	750 00
Clerk, 3 at \$600.....	1,200 00	600 00	1,800 00
Hospital Clerk, 2 at \$900.....	1,800 00	.....	1,800 00
Hospital Clerk, 2 at \$720.....	1,440 00	.....	1,440 00
Hospital Clerk	600 00	.....	600 00
Hospital Clerk, 2 at \$540.....	1,080 00	.....	1,080 00
Hospital Clerk	480 00	.....	480 00
Stenographer, 3 at \$900.....	2,700 00	900 00	3,600 00
Schedule Total			\$29,070 00
Tax Levy Allowance.....			27,570 00
Rate of Special Revenue Bond Allowance.....			1,500 00
Total Allowance			\$29,070 00

Personal Service, Bellevue Hospital.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Operation—			
201. Salaries, Regular Employees:			
Resident Physician	\$4,000 00	.....	\$4,000 00
Assistant Resident Physician	1,500 00	.....	1,500 00
Assistant Alienist, 2 at \$2,100.....	4,200 00	.....	4,200 00
Pathologist	1,800 00	.....	1,800 00
Pathologist, 2 at \$1,500.....	3,000 00	.....	3,000 00
Admitting Physician, 3 at \$1,000.....	3,000 00	.....	3,000 00
Resident Obstetrician	1,200 00	.....	1,200 00
Resident Obstetrician	900 00	.....	900 00
Resident Physician	900 00	.....	900 00
Resident Physician		\$600 00	600 00
Physician to Out-Patients, 3 at \$600.....	1,800 00	.....	1,800 00
Physician to Out-Patients, 5 at \$300.....	1,500 00	.....	1,500 00
Instructor in Anesthesia, 4 at \$750.....	3,000 00	.....	3,000 00
X-Ray Photographer	1,800 00	.....	1,800 00
Apothecary	1,200 00	.....	1,200 00
Apothecary, 2 at \$900.....	1,800 00	.....	1,800 00
Apothecary	750 00	.....	750 00
Photographer	1,200 00	.....	1,200 00
Medical Bath Attendant	480 00	.....	480 00
Dietitian	1,000 00	.....	1,000 00
Housekeeper, 2 at \$900.....	1,600 00	.....	1,600 00
Housekeeper, 3 at \$600.....	1,800 00	.....	1,800 00
Laboratory Assistant, 2 at \$750.....	1,500 00	.....	1,500 00
Gateman	500 00	.....	500 00
Butcher, 2 at \$720.....	1,440 00	.....	1,440 00
Butcher	600 00	.....	600 00
Barber	480 00	.....	480 00
Auto Engineman, 2 at \$1,200.....	2,400 00	.....	2,400 00
Driver, 8 at \$600.....	4,800 00	.....	4,800 00
Laundry Manager		1,200 00	1,200 00
Schedule Total			\$51,950 00
Tax Levy Allowance			\$50,150 00
Rate of Special Revenue Bond Allowance.....			1,800 00
Total Allowance			\$51,950 00

Personal Service, Bellevue Hospital.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Operation—			
202 Salaries, Temporary Employees:			
Trained Nurse (social service) at \$900 (72 months)	\$5,400 00		\$5,400 00
Trained Nurse, at \$800 (216 months)	14,400 00		14,400 00
Trained Nurse (12 months)	750 00		750 00
Trained Nurse, at \$720 (180 months)	10,800 00		10,800 00
Trained Nurse, at \$600 (1,105 months)	50,250 00	\$5,000 00	55,250 00
Trained Nurse (12 months)	480 00		480 00
Pupil Nurse, at \$96 (2,160 months)	17,280 00		17,280 00
Head Pupil Nurse, at \$480 (48 months)	1,920 00		1,920 00
Head Pupil Nurse, at \$360 (36 months)	1,080 00		1,080 00
Lecturer, at \$3, \$5, \$8 and \$10 a lecture	800 00		800 00
Orderly, at \$480 (24 months)	960 00		960 00
Orderly (12 months)	360 00		360 00
Cook (12 months)	900 00		900 00
Cook, at \$720 (7 months)	420 00		420 00
Cook, at \$480 (12 months)	480 00		480 00
Cook (24 months)	840 00		840 00
Laundryman (12 months)	720 00		720 00
Laundryman (12 months)	480 00		480 00
Hospital Helper (12 months)	720 00		720 00
Hospital Helper (12 months)	600 00		600 00
Hospital Helper, at \$480 (180 months)	7,200 00		7,200 00
Hospital Helper, at \$420 (36 months)	1,260 00		1,260 00
Hospital Helper, at \$360 (144 months)	4,320 00		4,320 00
Hospital Helper (12 months)	312 00		312 00
Hospital Helper, at \$300 (792 months)	19,800 00		19,800 00
Hospital Helper, at \$288 (48 months)	1,152 00		1,152 00
Hospital Helper, at \$240 (2,747 1-5 months)	54,944 00		54,944 00
Hospital Helper, at \$216 (13 months)	234 00		234 00
Hospital Helper, at \$192 (151 months)	2,416 00		2,416 00
Hospital Helper, at \$180 (1,594 months)	23,910 00		23,910 00
Schedule Total			\$230,184 00
Tax Levy Allowance			225,184 00
Special Revenue Bond Allowance			5,000 00
Total Allowance			\$230,184 00

Personal Service, Nurses' Residence.

Operation—	
206 Salaries, Temporary Employees:	
Trained Nurse (12 months)	\$900 00
Trained Nurse (12 months)	720 00
Trained Nurse, at \$600 (24 months)	1,200 00
Cook (12 months)	420 00
Cook (12 months)	420 00
Hospital Helper (12 months)	360 00
Hospital Helper, at \$300 (43 months)	1,075 00
Hospital Helper, at \$240 (269 months)	5,380 00
Hospital Helper, at \$216 (127 months)	2,266 00
Hospital Helper, at \$192 (147 months)	2,352 00
Hospital Helper, at \$180 (37 months)	555 00
	\$15,948 00

Personal Service, Gouverneur Hospital.

Operation—	
208 Salaries, Temporary Employees:	
Trained Nurse (Social Service), at \$900 (36 months)	\$2,700 00
Trained Nurse, at \$800 (24 months)	1,600 00
Trained Nurse, at \$720 (60 months)	3,600 00
Trained Nurse, at \$600 (392 months)	19,600 00
Pupil Nurse, at \$96 (56 months)	448 00
Cook (12 months)	720 00
Laundryman (12 months)	600 00
Hospital Helper (12 months)	600 00
Hospital Helper (12 months)	480 00
Hospital Helper (12 months)	420 00
Hospital Helper, at \$360 (88 months)	2,640 00
Hospital Helper, at \$300 (87 months)	2,175 00
Hospital Helper, at \$270 (48 months)	1,080 00
Hospital Helper, at \$240 (480 months)	9,600 00
Hospital Helper, at \$216 (72 months)	1,296 00
Hospital Helper, at \$192 (24 months)	384 00
Hospital Helper, at \$180 (203 months)	3,045 00
	\$50,990 00

Personal Service, Harlem Hospital.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Operation—			
211 Salaries, Temporary Employees:			
Trained Nurse (Social Service), at \$900 (36 months)	\$2,700 00		\$2,700 00
Trained Nurse (Social Service), at \$800 (12 months)		\$800 00	800 00
Trained Nurse, at \$720 (48 months)	2,880 00		2,880 00
Trained Nurse, at \$600 (144 months)	7,200 00		7,200 00
Pupil Nurse, at \$96 (480 months)	3,840 00		3,840 00
Cook (12 months)	720 00		720 00
Laundryman (12 months)	600 00		600 00
Hospital Helper, at \$480 (24 months)	960 00		960 00
Hospital Helper, at \$360 (48 months)	1,440 00		1,440 00
Hospital Helper, at \$300 (96 months)	2,400 00		2,400 00
Hospital Helper, at \$240 (444 months)	8,880 00		8,880 00
Hospital Helper, at \$192 (60 months)	960 00		960 00
Hospital Helper, at \$180 (252 months)	3,780 00		3,780 00
Schedule Total			\$37,160 00
Tax Levy Allowance			36,360 00
Special Revenue Bond Allowance			800 00
Total Allowance			\$37,160 00

Fordham Hospital.

Operation—	
213 Salaries, Regular Employees:	
Admitting Physician	\$900 00
Apothecary	900 00
Physicians to Out-Patients, 2 at \$300	600 00
Housekeeper	720 00
Auto Engineman	1,200 00
Drivers, 3 at \$600	1,800 00
Unassigned balance	20 00
	\$6,140 00

Personal Service, Fordham Hospital.

Operation—	
214 Salaries, Temporary Employees:	
Trained Nurse (Social Service), at \$900 (24 months)	\$1,800 00
Trained Nurse (12 months)	800 00
Trained Nurse, at \$720 (24 months)	1,440 00
Trained Nurse, at \$600 (144 months)	7,200 00
Pupil Nurse, at \$96 (396 months)	3,168 00
Cook (12 months)	720 00
Laundryman (12 months)	600 00
Hospital Helper (12 months)	480 00
Hospital Helper, at \$360 (24 months)	720 00
Hospital Helper, at \$300 (108 months)	2,700 00
Hospital Helper, at \$270 (36 months)	810 00
Hospital Helper, at \$240 (420 months)	8,400 00
Hospital Helper, at \$216 (96 months)	1,728 00
Hospital Helper, at \$192 (36 months)	576 00
Hospital Helper, at \$180 (126 months)	1,890 00
	\$33,032 00

Personal Service, Bellevue Hospital.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Maintenance—			
216 Salaries, Regular Employees:			
Hospital Helper-Mechanic, 3 at \$720	\$2,160 00		\$2,160 00
Hospital Helper-Mechanic, 7 at \$600	3,600 00	\$600 00	4,200 00
Hospital Helper-Mechanic, 2 at \$480	960 00		960 00
Schedule Total			\$7,320 00
Tax Levy Allowance			\$6,720 00
Rate of Special Revenue Bond Allowance			600 00
Total Allowance			\$7,320 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Comptroller recommending, a modification of the budgetary part schedule for the Bureau of Engineering (Construction), under the jurisdiction of said Borough President, providing for certain increases and decreases in salaries and additional force, to be effective as of July 1, 1912:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 10, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York City:
 Gentlemen—On May 14, 1912, an ordinance of the Board of Aldermen became effective establishing the following grades of positions in the Bureau of Engineering Construction of this office:

Rodmen, \$1,350 per annum, 4 incumbents.
 Inspectors of Regulating, Grading and Paving, \$1,500, 2 incumbents.
 Inspectors of Regulating, Grading and Paving, 1,350, 2 incumbents.
 Stenographer and Typewriter, \$1,650, 1 incumbent.

On March 19, 1912, I addressed a communication to the Board requesting modifications of the Salary Schedule No. 2085 for the Bureau of Engineering Construction, showing among other changes the increases of salary of the following men: Frederick Einfieldt, Stenographer and Typewriter, from \$1,500 to \$1,650; John C. Welzin, Hugh M. Goodwin, Edward Brice and Samuel A. Bennett, Rodmen, from \$1,200 to \$1,350 per annum; William Nugent and Henry A. Micha, Inspectors of Regulating, Grading and Paving, from \$1,200 to \$1,500 per annum; Michael McGuigan and Abraham Winant, Inspectors of Regulating, Grading and Paving, from \$1,200 to \$1,350 per annum; John Rudolph, Messenger, from \$1,050 to \$1,200 per annum.

These proposed increases were offset by decreases in the rates of individual salaries as provided for in the resolution of the Board of Estimate of October 5, 1911, and no increase in the allowance for the Bureau of Engineering Construction was requested.

The Committee to whom this matter had been referred had prepared a favorable report, and it was in the hands of the printer on or about the 17th of May, and through some oversight we understand that this report with several others was mislaid in the printer's office, and did not come up before the Board for action as it should have done on May 23, May 31 or June 6. On the latter date all modifications of schedules for the City Departments, favorable reports on which had been prepared at the same time as the one in question were adopted by the Board of Estimate, but this, with the others which had been mislaid in the printer's office were not considered, and by the Board's resolution of June 6, 1912, effecting the raising of salaries, it is barred from further consideration by it.

A report of the Committee on Salaries and Grades, made up of the Comptroller and the President of the Board of Aldermen, in favor of recommending to the Board of Aldermen the establishing of grades of positions as above enumerated, stated very clearly the reasons for these grades being established, the names of the men who were to be rewarded for faithful service, and the fact that money for these increases had been procured by the reduction of other positions in the same Bureau, of an equal amount. The Board, therefore, had full knowledge of the reasons for the creation of these grades of positions, and it would seem only fair and proper that, after having recommended them to the Board of Aldermen, which later approved of such recommendation, thereby establishing same, it should ratify such action by the authorization to the President of the Borough to make the increases requested, and it does not seem proper that a resolution of the Board of June 6, 1912, laying out an entirely new policy as to the increasing of salaries of City employees, should militate against the action desired in this case, which had been under the consideration of the Board of Estimate and Apportionment for a number of months, and on which a favorable report of its Committee in charge of these matters had been prepared and printed.

In view of the above facts I would request that the resolution of June 6, 1912, relating to the matter of increases in salaries be suspended, in so far as it would affect the increases of those employees already enumerated, and that the Board of Estimate pass a resolution authorizing the President of the Borough of Richmond to make these increases, and modify the salary schedule accordingly.

Yours very truly,
 GEORGE CROMWELL, President of the Borough.
 Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On March 19, 1912, the President of the Borough of Richmond requested modification of the budgetary part schedule for the Bureau of Engineering (Construction) under his jurisdiction. In connection therewith I report as follows:

The request is to permit of certain increases in salaries amounting in all to \$1,800, and the addition of two new employees. No increase in the annual payroll cost is made.

The increases in salaries are:
 Four Rodmen, from \$1,200 to \$1,350 per annum; one Stenographer and Typewriter, from \$1,500 to \$1,650 per annum; two Inspectors of Regulating, Grading and Paving, from \$1,200 to \$1,500 per annum; two Inspectors of Regulating, Grading and Paving, from \$1,200 to \$1,350 per annum; one Messenger, from \$1,050 to \$1,200 per annum.

The new positions are:
 Typewriting Copyist, at \$900 per annum; Automobile Engineman, at \$900 per annum.

It is proposed to increase the salaries of the following Rodmen: John P. Weldin, Hugh M. Goodwin, Edward J. Brice, Samuel A. Bennett, from \$1,200 to \$1,350.

The present rate was fixed in 1909. They have been recommended for increase on the basis of individual efficiency and the responsibilities of the positions.

An increase of \$150 is proposed for Frederick Einfeldt, Stenographer and Typewriter, at \$1,500. It is stated by the President that the duties performed are of a particularly technical nature and involve the preparation of all contracts, tabulation of work performed by the Bureau of Engineering, in addition to the routine work of the Bureau.

It is proposed to increase the rate of pay of William Nugent and Henry Micha, Inspectors of Regulating, Grading and Paving, from \$1,300 to \$1,500 per annum. Nugent has been employed on the work for the past seven years and is regarded as a particularly efficient man.

Michael McGuigan and Abraham Winant, Inspectors of Regulating, Grading and Paving, now receiving \$1,200, are to be increased to \$1,350, on the basis of efficiency, which the President states justifies the increase.

The President requests that the salary of John R. Rudolph, a Messenger, now receiving \$1,050, be fixed at \$1,200, for the reason that he is particularly valuable in the work he has to do.

The additional force proposed consists of one Automobile Engineman and a Typewriting Copyist, at \$900 each. The former is to be employed in driving an automobile now available for the construction force; the Typewriting Copyist is to be employed in connection with assessment improvements.

The increases in salary over the added force amount to \$1,800 each, a total of increased cost of \$3,600.

This is offset by the following decreases in salaries: A Transitman and Computer, at \$1,650; a Topographical Draftsman at \$1,650, and one at \$1,350, each to \$1,200; an Inspector of Sewer Construction at \$1,500 to \$1,050; an Inspector of Regulating, Grading and Paving at \$1,200 to \$900; a total of \$1,800.

Two Laborers, at \$900 each, are eliminated, thus making a total decrease of \$3,600. Budget lines are affected by the proposed changes as follows:

Table with columns: Account No., Title of Position, Schedule Transfer (Increase, Decrease), Cash Transfer (Increase, Decrease). Rows include Transitman and Computer, Rodman, Topographical Draftsman, Stenographer and Typewriter, etc.

I recommend the adoption of the attached resolution granting the request. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered: Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Richmond, for the year 1912, to take effect July 1, 1912, as follows:

Table titled 'Personal Service' and 'Engineering (Construction)'. Lists various positions and their salaries, such as Salaries, Regular Employees, Tax Levy, Corporate Stock and Special and Trust Fund Force.

Table listing salaries for Foreman (8 at \$1,050), Driver (5 at \$900), and Laborer (20 at \$900), with a total of \$145,300.00.

Table showing Tax Levy, Part Allowance (\$51,490.00) and Corporate Stock and Special and Trust Fund, Part Allowance (\$93,810.00), totaling \$145,300.00.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the City Chamberlain requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 63, to be effective as of July 1, 1912, to permit of increasing two Clerks from \$1,350 to \$1,500 per annum each, and a Bookkeeper from \$1,950 to \$2,000 per annum:

City of New York, Office of the Chamberlain, July 8, 1912. Hon. WILLIAM A. PRENDERGAST, Comptroller: Dear Sir—Request is hereby made for the modification of Schedule No. 63, City Chamberlain, Personal Service, Salaries, Regular Employees, by omitting therein the following lines:

Table listing items to be omitted: Bookkeeper (2,000.00), Bookkeeper (1,950.00), Clerk (1,500.00), Clerk, 3 at (1,350.00), Clerk (900.00).

Table listing items to be substituted: Bookkeeper, 2 at (2,000.00), Clerk, 3 at (1,500.00), Clerk (1,350.00), Clerk (540.00).

Some months ago a Clerk, at \$900, was transferred to a similar position at \$1,050 in the office of the Comptroller. The vacancy I propose to fill by appointing a Clerk, at \$540, and the balance I intend to use to increase the salaries of two Clerks, from \$1,350 to \$1,500, and of one Bookkeeper, from \$1,950 to \$2,000. Very truly yours, R. R. MOORE, Chamberlain.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment: Gentlemen—On July 8, 1912, the City Chamberlain requested modification of the 1912 schedule in his office, entitled, Personal Service, No. 63, Salaries, Regular Employees. In connection therewith, I report as follows:

It is proposed to increase two Clerks from \$1,350 to \$1,500 per annum each, and a Bookkeeper from \$1,950 to \$2,000. The \$350 necessary for these increases is available in an unassigned balance. This does not increase the amount allowed in the Budget for 1912 for this schedule, and is, therefore, in conformity with the policy of your Board.

Table showing line item changes in detail with columns: Code No., Schedule Line, Schedule Transfer (Decrease, Increase), Cash Transfer (Decrease, Increase). Rows include Bookkeeper, Clerk, and Balance unassigned.

I recommend the adoption of the attached resolution granting the request. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered: Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the City Chamberlain, for the year 1912, to be effective as of July 1, 1912, as follows:

Table titled 'Personal Service—Administration'. Lists salaries for various positions including Chamberlain, Deputy Chamberlain, Bookkeeper, Clerk, Stenographer, Secretary, Warrant Clerk, Bank Messenger, Examiner of Coupons, etc.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Queens, requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 2005, to be effective as of August 1, 1912, for the office of the President of the Borough of Queens, to provide for the employment of a Clerk, at \$1,500 per annum, in place of a Draftsman, at \$1,800 per annum:

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 21, 1912. Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment, City of New York:

Sir—Pursuant to resolution prefacing the Budget, application is hereby made for a revision of the schedule lines within the funds allotted to this office for the year 1912, to wit:

Bureau of Sewers. Engineering—2005 Salaries, Regular Employees, Tax Levy and Special and Trust Fund Force:

Table comparing Present Schedule and Proposed Schedule for various positions like Chief Engineer, Assistant Engineer, Draftsman, etc.

	Present Schedule.	Proposed Schedule.
Draftsman, 6 at \$1,500.....	9,000 00	9,000 00
Draftsman	1,350 00	1,350 00
Draftsman, 7 at \$1,200.....	8,400 00	8,400 00
Transitman	1,500 00	1,500 00
Rodman, 3 at \$1,200.....	3,600 00	3,600 00
Axeman	900 00	900 00
Stenographer and Typewriter.....	1,200 00	1,200 00
Inspector, 6 at \$1,500.....	9,000 00	9,000 00
Clerk	1,050 00	1,500 00
Balance unassigned	900 00	450 00
Schedule Total	\$69,850 00	\$69,850 00
Tax Levy, Part Allowance.....	\$25,575 00	
Special and Trust Fund, Part Allowance..	44,275 00	
	\$69,850 00	

This modification is to provide for the employment of a Clerk, at \$1,500 per annum, to perform the work which has been done by a Topographical Draftsman, at \$1,800 per annum, deceased. The work consists of the preparation of contracts and work of a like character in connection with the preparation of drainage construction plans and construction work in the office of the Chief Engineer of this Bureau. The position is one of no little responsibility, requiring a man of experience and special qualifications.

The unassigned balance of \$900 in this schedule has been reduced to \$450 to meet the increase. The position is vacant, as this is a new one established by the Board of Estimate and Apportionment, in its resolution of May 9, 1912.

Yours respectfully,

DENIS O'LEARY, Acting President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1912, the Acting President of the Borough of Queens requested modification of one salary schedule within appropriation for the year 1912. In connection therewith I report as follows:

This modification is to provide for the employment of a Clerk at \$1,500 per annum in No. 2005, Personal Service, Bureau of Sewers, Engineering, to perform the work which has been done by a Topographical Draftsman at \$1,800 per annum. The necessary funds for the change are available in an unassigned balance.

I recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the President of the Borough of Queens, for the year 1912, to be effective as of August 1, 1912, as follows:

BUREAU OF SEWERS.

Engineering.

2005 Salaries, Regular Employees—Tax Levy and Special and Trust Fund Force:		
Chief Engineer		\$3,000 00
Assistant Engineer, 3 at \$2,700.....		8,100 00
Assistant Engineer		2,500 00
Assistant Engineer, 2 at \$2,250.....		4,500 00
Assistant Engineer, 2 at \$1,950.....		3,900 00
Assistant Engineer, 3 at \$1,800.....		5,400 00
Draftsman		2,100 00
Draftsman		1,800 00
Draftsman		1,650 00
Draftsman, 6 at \$1,500.....		9,000 00
Draftsman		1,350 00
Draftsman, 7 at \$1,200.....		8,400 00
Transitman		1,500 00
Rodman, 3 at \$1,200.....		3,600 00
Axeman		900 00
Stenographer and Typewriter		1,200 00
Inspector, 6 at \$1,500.....		9,000 00
Clerk		1,500 00
Balance unassigned		450 00
Schedule total		\$69,850 00
Tax Levy, part allowance.....		\$25,575 00
Special and trust fund part allowance.....		44,275 00
		\$69,850 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Municipal Civil Service Commission requesting the modification of salary schedule No. 1349, to be effective as of July 1, 1912, to permit of increasing the salary of a Stenographer and Typewriter from \$1,500 to \$1,800 per annum, together with a report of the Comptroller recommending the approval of said request:

Municipal Civil Service Commission of The City of New York, 299 Broadway, Eleventh Floor, Payroll Bureau, New York, July 3, 1912.

Hon. Wm. A. PRENDERGAST, Comptroller, Department of Finance:

Sir—The Municipal Civil Service Commission hereby respectfully requests that its salary schedule be amended to read as follows, effective as of July 1, 1912:

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
Clerk	2,400 00
Clerk, 4 at \$2,100.....	8,400 00
Clerk	1,800 00
Clerk, 2 at \$1,650.....	3,300 00
Clerk	1,500 00
Clerk, 2 at \$1,350.....	2,700 00
Clerk, 3 at \$1,200.....	3,600 00
Clerk	1,050 00
Clerk, 3 at \$900.....	2,700 00
Clerk, 3 at \$750.....	2,250 00
Clerk, 2 at \$600.....	1,200 00
Clerk, 3 at \$540.....	1,620 00
Clerk, 3 at \$480.....	1,440 00
Clerk, 9 at \$300.....	2,700 00
Stenographer and Typewriter.....	1,800 00
Stenographer and Typewriter, 2 at \$1,500.....	3,000 00
Stenographer and Typewriter, 2 at \$1,350.....	2,700 00
Stenographer and Typewriter (Male), 2 at \$1,200.....	2,400 00
Stenographer and Typewriter, 2 at \$1,200.....	2,400 00
Stenographer and Typewriter, 5 at \$750.....	3,750 00
Telephone Operator	1,050 00
Chief Examiner	4,200 00
Assistant Chief Examiner, 2 at \$3,500.....	7,000 00
Medical Examiner	2,400 00
Engineer Examiner	2,700 00
Examiner, 3 at \$2,700.....	8,100 00
Examiner, 4 at \$2,400.....	9,600 00
Examiner, 4 at \$2,100.....	8,400 00
Examiner, 4 at \$1,800.....	7,200 00
Investigator, 2 at \$1,500.....	3,000 00
	\$137,860 00

These changes will not increase the total appropriation of the Municipal Civil Service Commission for the year 1912, as fixed by the Budget. They are made necessary owing to a readjustment of the office force. Respectfully yours,

J. F. SKELLY, Assistant Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 3, 1912, the Assistant Secretary of the Municipal Civil Service Commission requested the modification of the 1912 schedule entitled Personal Service, No. 1349, Salaries, Regular Employees. In connection therewith I report as follows:

It is proposed to increase the salary of Miss Teresa G. Casey, a Stenographer and Typewriter, from \$1,500 to \$1,800 per annum. The \$300 necessary is available in an unassigned balance. Miss Casey was appointed as a Stenographer and Typewriter at \$900 per annum, on February 17, 1902. On January 1, 1903, her salary was increased to \$1,050; on August 1, 1904, to \$1,200; and to the present rate on September 1, 1907.

The following table shows the line item changes in detail.

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1349	Stenographer and Typewriter, at \$1,800		\$1,800 00		\$900 00
	Stenographer and Typewriter, 3 at \$1,500.....	\$1,500 00		\$750 00	
	Balance unassigned, \$300.....	300 00		150 00	
		\$1,800 00	\$1,800 00	\$900 00	\$900 00

I recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Municipal Civil Service Commission, for the year 1912, to be effective as of July 1, 1912, as follows:

MUNICIPAL CIVIL SERVICE COMMISSION.

Personal Service.

1349 Salaries, Regular Employees—		
President		\$6,000 00
Commissioner, 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
Clerk		2,400 00
Clerk, 4 at \$2,100.....		8,400 00
Clerk		1,800 00
Clerk, 2 at \$1,650.....		3,300 00
Clerk		1,500 00
Clerk, 2 at \$1,350.....		2,700 00
Clerk, 3 at \$1,200.....		3,600 00
Clerk		1,050 00
Clerk, 3 at \$900.....		2,700 00
Clerk, 3 at \$750.....		2,250 00
Clerk, 2 at \$600.....		1,200 00
Clerk, 3 at \$540.....		1,620 00
Clerk, 3 at \$480.....		1,440 00
Clerk, 9 at \$300.....		2,700 00
Stenographer and Typewriter.....		1,800 00
Stenographer and Typewriter, 2 at \$1,500.....		3,000 00
Stenographer and Typewriter, 2 at \$1,350.....		2,700 00
Stenographer and Typewriter (Male), 2 at \$1,200.....		2,400 00
Stenographer and Typewriter, 2 at \$1,200.....		2,400 00
Stenographer and Typewriter, 5 at \$750.....		3,750 00
Telephone Operator		1,050 00
Chief Examiner		4,200 00
Assistant Chief Examiner, 2 at \$3,500.....		7,000 00
Medical Examiner		2,400 00
Engineering Examiner		2,700 00
Examiner, 3 at \$2,700.....		8,100 00
Examiner, 4 at \$2,400.....		9,600 00
Examiner, 4 at \$2,100.....		8,400 00
Examiner, 4 at \$1,800.....		7,200 00
Investigator, 2 at \$1,500.....		3,000 00
		\$137,860 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond, requesting the modification of salary schedule No. 924, to be effective as of August 1, 1912, to provide for increases of \$500 and \$300 in the salaries of two Keepers of Menagerie, etc., together with a report of the Comptroller recommending approval of said request:

New York, July 12, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Sir—I respectfully request a modification of schedule 924, Salaries, Regular Employees, in the Budget of 1912, by eliminating the line item reading "Director of Menagerie, at \$1,200 per annum, and Keeper of Menagerie, at \$1,200 per annum," making a decrease of \$2,400, and inserting in lieu thereof a line item for Keeper of Menagerie, at \$2,000 per annum.

The grade of Keeper of Menagerie was recently established by the Board of Estimate and Apportionment and the Board of Aldermen at my request, to provide an increase in compensation for William Snyder, who has for many years had active supervision of the Menagerie, for the reason that the Director of the Menagerie was incapacitated; and also for Robert Hurton.

The schedule, when revised, will read as follows:

Zoological Department.

924 Salaries, Regular Employees—		
Keeper of Menagerie.....		\$2,000 00
Keeper of Menagerie.....		1,500 00
Keeper of Menagerie, 3 at \$1,020.....		3,060 00
Keper of Menagerie, 8 at \$900.....		7,200 00
Driver		915 00
		\$14,675 00

The requested modification shows a net decrease of \$400 in the schedule, and I am convinced that it will afford the possibility of better administration.

I request that your immediate action be taken in the matter, and that the modification be approved to take effect as of August 1, 1912. Respectfully,

CHAS. B. STOVER, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of July 12, 1912, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested modification of Schedule No. 924, Salaries, Regular Employees, to provide for an increase of \$500 in the compensation of William Snyder, Keeper of Menagerie, and an increase of \$300 for Robert Hurton, Keeper of Menagerie. To effect this increase of \$800, the position of Director of Menagerie, at \$1,200 per annum, is eliminated, thereby making a net decrease of \$400 in the yearly cost of maintaining the Department.

The Board of Estimate and Apportionment requested the Board of Aldermen to establish the grade of Keeper of Menagerie, at \$2,000 per annum, and favorable action was taken by the Board of Aldermen on July 2, 1912.

The following statement shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
924	Director of Menagerie, 1 at \$1,200	\$1,200 00		\$500 00	
	Keeper of Menagerie, 1 at \$1,200	1,200 00		500 00	
	Keeper of Menagerie, 1 at \$2,000		\$2,000 00		\$833 33
	Unassigned balance		400 00		166 67
		\$2,400 00	\$2,400 00	\$1,000 00	\$1,000 00

I recommend the adoption of the attached resolution approving the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1912, to be effective as of August 1, 1912, as follows:

Personal Service, Zoological Department.

924	Salaries, Regular Employees:	
	Keeper of Menagerie.....	\$2,000 00
	Keeper of Menagerie.....	1,500 00
	Keeper of Menagerie, 3 at \$1,020.....	3,060 00
	Keeper of Menagerie, 8 at \$900.....	7,200 00
	Driver.....	915 00
		\$14,675 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond, requesting, and report of the Comptroller recommending, the modification of salary schedule No. 910 for said Department, to be effective as of August 1, 1912, to provide for an increase of the salary of a Clerk from \$1,200 to \$1,500 per annum, by decreasing an Auto-Engineman from \$1,500 to \$1,200 per annum:

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, July 11, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—I respectfully request a modification of Schedule 910, Executive, Salaries, Regular Employees, by eliminating 1 Clerk, at \$1,200 per annum, and decreasing the line item Automobile Engineman by an amount of \$300, and inserting in lieu thereof 1 additional Clerk, at \$1,500 per annum.

The modification will enable me to increase the compensation of Alexander Balgley, a Clerk appointed January 2, 1908, who has rendered faithful and satisfactory service in that capacity since the date of his appointment.

I have recently placed Mr. Balgley in charge of the Cost Accounting and Stores Ledger system installed by your Department, in addition to his other duties. He has had no increase in compensation since the date of his appointment, and I am of the opinion that it is only fair to give him this well-deserved promotion.

The schedule as revised will read as follows:

Executive.

910	Salaries, Regular Employees:	
	Examiner.....	\$4,000 00
	Superintendent.....	4,000 00
	Architect.....	2,500 00
	Secretary to Commissioner.....	2,500 00
	Assistant Superintendent of Parks.....	2,500 00
	Purchasing Agent.....	2,000 00
	Clerk, 2 at \$2,250.....	4,500 00
	Clerk, 2 at \$1,800.....	3,600 00
	Clerk, 3 at \$1,500.....	4,500 00
	Clerk, 1 at \$1,200.....	1,200 00
	Clerk, 2 at \$1,050.....	2,100 00
	Clerk, 8 at \$900.....	7,200 00
	Clerk, 4 at \$300.....	1,200 00
	Storekeeper.....	1,200 00
	Storekeeper and Typewriter.....	1,350 00
	Stenographer and Typewriter, 2 at \$1,200.....	2,400 00
	Stenographer and Typewriter.....	1,080 00
	Stenographer and Typewriter, 2 at \$900.....	1,800 00
	Telephone Operator.....	750 00
	Auto Engineman.....	1,200 00
		\$51,580 00

—entailing no transfer of funds or any additional cost to the City, to take effect as of August 1, 1912. Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 11, 1912, the Commissioner of Parks, Manhattan and Richmond, requested modification of the 1912 salary schedule No. 910, Administration, Executive, Salaries, Regular Employees. In connection therewith I report as follows:

It is proposed to increase Alexander Balgley, a Clerk, from \$1,200 to \$1,500 per annum. To provide for the increase the salary of an Auto Engineman is to be decreased from \$1,500 to \$1,200.

The following table shows the line item changes in detail:

Line Item.	Schedule Transfer.		Cash Transfer.	
	Decrease.	Increase.	Decrease.	Increase.
Clerk, 2 at \$1,500.....		\$1,500 00		\$625 00
Clerk, 2 at \$1,200.....	\$1,200 00		\$500 00	
Auto Engineman, 1 at \$1,500.....	1,500 00		625 00	
Auto Engineman, at \$1,200.....		1,200 00		500 00
	\$2,700 00	\$2,700 00	\$1,125 00	\$1,125 00

I recommend the adoption of the attached resolution approving the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised for the Department of Parks, Manhattan and Richmond, for the year 1912, to be effective as of August 1, 1912, as follows:

Personal Service, Administration, Executive.

910	Salaries, Regular Employees:	
	Examiner.....	\$4,000 00
	Superintendent.....	4,000 00
	Architect.....	2,500 00
	Secretary to Commissioner.....	2,500 00
	Assistant Superintendent of Parks.....	2,500 00
	Purchasing Agent.....	2,000 00
	Clerk, 2 at \$2,250.....	4,500 00
	Clerk, 2 at \$1,800.....	3,600 00
	Clerk, 3 at \$1,500.....	4,500 00
	Clerk.....	1,200 00
	Clerk, 2 at \$1,050.....	2,100 00
	Clerk, 8 at \$900.....	7,200 00
	Clerk, 4 at \$300.....	1,200 00
	Storekeeper.....	1,200 00

Stenographer and Typewriter.....	1,350 00
Stenographer and Typewriter, 2 at \$1,200.....	2,400 00
Stenographer and Typewriter.....	1,080 00
Stenographer and Typewriter, 2 at \$900.....	1,800 00
Telephone Operator.....	750 00
Auto Engineman.....	1,200 00
	\$51,580 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Manhattan requesting, and report of the Comptroller recommending, the modification of salary schedule No. 1808, for said Borough President, to provide for an increase of \$750 for an Assistant Engineer now receiving \$2,250 per annum, to be offset by vacancies in the positions of Assistant Engineer and Attendant:

July 12, 1912.
JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, No. 277 Broadway, New York:

Dear Sir—Request is hereby made that the supporting schedules of salaries attached to the budget of the President of the Borough of Manhattan for the year 1912 be amended so as to read as follows:

Public Buildings and Offices, Personal Service.

1808	Administration, Salaries, Regular Employees:	
	Superintendent.....	\$5,000 00
	Assistant Engineer.....	3,500 00
	Assistant Engineer.....	3,000 00
	Assistant Engineer.....	2,100 00
	Assistant Engineer.....	1,800 00
	Mechanical Engineer.....	2,550 00
	Mechanical Engineer.....	2,100 00
	Mechanical Draftsman, 2 at \$1,800.....	3,600 00
	Mechanical Draftsman.....	1,500 00
	Architectural Draftsman.....	1,800 00
	Topographical Draftsman.....	1,650 00
	Inspector of Public Buildings and Offices.....	1,500 00
	Storekeeper.....	1,200 00
	Clerk.....	1,650 00
	Clerk.....	1,200 00
	Clerk.....	1,050 00
	Telephone Operator, 2 at \$900.....	1,800 00
	Telephone Operator, 2 at \$750.....	1,500 00
	Attendant.....	1,050 00
	Automobile Engineman.....	1,350 00
	Unassigned balance.....	250 00
		\$41,150 00

By this modification a vacancy existing in the position of Assistant Engineer at \$2,400 is increased to \$3,000 per annum. It is intended to promote to this salary Mr. John C. Wolfe, at present receiving a compensation of \$2,250 per annum. The necessary funds to raise the vacancy from \$2,400 to \$3,000 per annum are secured by the elimination of a vacancy for Attendant, at \$720 per annum. The remainder of \$120 is added to the unassigned balance. The total of schedule remains unchanged, so that no transfer of funds is necessary. Yours very truly,
GEORGE McANENY, President, Borough of Manhattan.

Department of Finance, City of New York, Comptroller's Office, July 12, 1912.

The Honorable Board of Estimate and Apportionment:

Gentlemen—Under date of July 12, 1912, the President of the Borough of Manhattan requested a modification of salary schedule 1808 in the Public Buildings and Offices. The request for modification is to provide an increase of \$750 for John C. Wolfe, an Assistant Engineer now receiving \$2,250 per annum.

The salary of Mr. Wolfe is at present charged to Account 1786, General Administration, but for some time he has had charge of the engineering force of Public Buildings and Offices. It is stated that his salary is properly chargeable to Account 1808. It has been the intention of the Borough President to increase Mr. Wolfe's salary, but it was not until July 11 that he passed the examination which makes him eligible for the increase.

The funds necessary to increase Mr. Wolfe's salary will come from a vacant position of Assistant Engineer at \$2,400 in Account 1808, and a vacant position of Attendant at \$720 per annum in the same account. The line item of Assistant Engineer at \$2,250 in Account 1786 will be left vacant. The \$120 balance of the \$3,120 secured by eliminating the \$2,400 and \$720 positions is to be added to the present unassigned balance of \$130, making the unassigned balance under the new modification \$250.

I recommend that the request of the Borough President be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the following modifications of the schedules of salaries supporting the appropriations made to the President, Borough of Manhattan, Public Buildings and Offices, for the year 1912, entitled and as follows:

Public Buildings and Offices, Personal Service.

1808	Administration, Salaries, Regular Employees:	
	Superintendent.....	\$5,000 00
	Assistant Engineer.....	3,500 00
	Assistant Engineer.....	3,000 00
	Assistant Engineer.....	2,100 00
	Assistant Engineer.....	1,800 00
	Mechanical Engineer.....	2,550 00
	Mechanical Engineer.....	2,100 00
	Mechanical Draftsman, 2 at \$1,800.....	3,600 00
	Mechanical Draftsman.....	1,500 00
	Architectural Draftsman.....	1,800 00
	Topographical Draftsman.....	1,650 00
	Inspector of Public Buildings and Offices.....	1,500 00
	Storekeeper.....	1,200 00
	Clerk.....	1,650 00
	Clerk.....	1,200 00
	Clerk.....	1,050 00
	Telephone Operator, 2 at \$900.....	1,800 00
	Telephone Operator, 2 at \$750.....	1,500 00
	Attendant.....	1,050 00
	Automobile Engineman.....	1,350 00
	Unassigned Balance.....	250 00
		\$41,150 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Brooklyn requesting the modification of salary schedule No. 1924, for the office of said Borough President, by eliminating the unassigned balance of \$1,050 created by resolution of June 13, 1912, and restoring an unassigned balance of \$600 in Account No. 1937:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, July 11, 1912.

Mr. TILDEN ADAMSON, Bureau of Investigation and Statistics:

Dear Mr. Adamson—I enclose herewith copy of communication this day transmitted to the Comptroller by the Borough President relative to modification of salary

schedule No. 1924, which was on the calendar of the Board to-day, and was to be withdrawn for this new request.

I would sincerely thank you if you would kindly have this request given immediate attention. Yours very truly,
 JAMES M. POWER, Secretary.
 Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1912, the President of the Borough of Brooklyn requested modifications of two salary schedules in his office for the year 1912. On July 11 the request was amended to provide only for modification of one schedule.

On July 11 the request was granted in so far as was possible under the policy then in effect in this Board. That policy has been changed, so that the request may now be granted in full.

It is proposed to restore the line of Clerk, at \$1,050 per annum, in No. 1917, Personal Service, General Administration, Salaries, Regular Employees, by eliminating the unassigned balance of \$1,050 created by resolution of June 13, 1912, and restore an unassigned balance of \$600 in Account 1937.

I recommend the adoption of the attached resolution granting the request.
 Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Brooklyn for the year 1912, to take effect June 1, 1912, as follows:

PRESIDENT, BOROUGH OF BROOKLYN.
Personal Service.

General Administration—	
1917 Salaries, Regular Employees:	
President of the Borough	\$7,500 00
Commissioner of Public Works	6,000 00
Assistant Commissioner of Public Works	5,000 00
Consulting Engineer	7,200 00
Assistant Engineer	3,000 00
Secretary of the Borough	3,500 00
Secretary to the President	4,000 00
Secretary to the Commissioner	3,300 00
Chief Clerk	3,000 00
Bookkeeper	3,000 00
Bookkeeper	1,800 00
Executive Clerk	2,400 00
Confidential Inspector	2,100 00
Stenographer to Local Board	2,100 00
Stenographer	1,800 00
Stenographers, 4 at \$1,500	6,000 00
Stenographer	1,200 00
Clerks, 3 at \$2,100	6,300 00
Clerks, 2 at \$1,800	3,600 00
Clerk	1,650 00
Clerks, 2 at \$1,500	3,000 00
Clerks, 2 at \$1,200	2,400 00
Clerks, 2 at \$1,050	2,100 00
Clerks, 2 at \$900	1,800 00
Clerk	750 00
Clerk	600 00
Clerk	300 00
Automobile Engineman	1,500 00
Automobile Engineman	1,200 00
Messenger	1,350 00
	\$89,450 00

Buildings.

Administration:	
1937 Salaries, Regular Employees:	
Superintendent	\$5,000 00
Assistant Superintendent	4,000 00
Chief Clerk	3,000 00
Secretary to Superintendent	3,000 00
Plan Clerk	1,650 00
Assistant Engineer	3,000 00
Assistant Engineer, 2 at \$2,400	4,800 00
Clerk	1,800 00
Clerks, 2 at \$1,650	3,300 00
Clerks, 4 at \$1,350	5,400 00
Clerks, 6 at \$1,050	6,300 00
Clerk	900 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Typewriting Copyist	1,200 00
Messenger, 2 at \$1,050	2,100 00
Process Server	1,050 00
Estimator	1,200 00
Unassigned balance	600 00
	\$50,550 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Queens requesting authority to employ two Chemists, at \$1,200 per annum, and ten Assistant Engineers, at \$1,800 per annum, together with a report of the Comptroller recommending the approval of said request, by modifying Salary Schedule No. 1999, to be effective as of July 15, 1912.

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 28, 1912.
 Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment, City of New York:

Sir—Application is hereby made for authority to employ two (2) Chemists in this office, for the purpose of analyzing pavement and such other work as may be in their line, in connection with public improvements, in the Borough of Queens.

Their salaries to be paid out of the Street Improvement Fund or Repaving Streets Fund, chargeable against the appropriate contracts upon which their services may be rendered. Yours respectfully,

MAURICE E. CONNOLLY, President of the Borough of Queens.

The City of New York, Office of the President of the Borough of Queens, Long Island City, July 1, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman, Board of Estimate and Apportionment, City of New York:

Sir—Application is hereby made for authority to employ ten (10) Assistant Engineers, at a salary of eighteen hundred dollars (\$1,800) per annum, for the purpose of inspecting and doing such other work as may be necessary in their line in connection with the various road improvements now being progressed in this Borough; their salaries to be chargeable against the Street Improvement Fund or Corporate Stock Fund, and against such contracts as their services may be specifically rendered.

I expect that by the 15th of July there will be approximately \$1,750,000 worth of road work being carried on, and I would therefore thank your honorable Board for immediate action. Respectfully yours,

MAURICE E. CONNOLLY, President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28 and July 1, 1912, the President of the Borough of Queens requested authority to employ 2 Chemists at \$1,200 per annum and 10 Assistant Engineers at \$1,800 per annum, the cost to be paid out of non-budgetary funds. In connection therewith I report as follows:

On April 25, 1912, the Board of Estimate and Apportionment recommended to the Board of Aldermen the establishment in the office of the President of the grade of position of Chemist at \$1,200 per annum for two incumbents. The grades were concurred in by the Board of Aldermen on May 28, 1912.

The President states that in view of the fact that by July 15, 1912, there will be approximately \$1,750,000 worth of road work being carried on that it will be to the best interests of the City to employ the Chemists for the purposes of testing materials as mixed at the various asphalt companies' plants; and the Assistant Engineers, for the purpose of testing and ascertaining that materials as delivered and put in are in accordance with specifications.

I recommend the adoption of the attached resolution modifying the proper schedule and granting the request. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the President of the Borough of Queens for the year 1912, effective as of July 15, 1912, as follows:

BUREAU OF HIGHWAYS.
Engineering.

1999 Salaries, Regular Employees—Tax Levy and Special and Trust Fund:	
Assistant Engineer	\$4,000 00
Assistant Engineer, 3 at \$2,550	7,650 00
Assistant Engineer, 2 at \$2,500	5,000 00
Draftsman, 2 at \$1,800	3,600 00
Draftsman	1,500 00
Draftsman	1,350 00
Draftsman, 2 at \$1,200	2,400 00
Transitman, 4 at \$1,500	6,000 00
Transitman, 2 at \$1,200	2,400 00
Chainman, 3 at \$1,200	3,600 00
Rodman, 2 at \$1,200	2,400 00
Rodman, 2 at \$1,050	2,100 00
Axeman, 6 at \$900	5,400 00
Inspector, 5 at \$1,650	8,250 00
Inspector	1,500 00
Inspector	1,200 00
Inspector of Street Openings, 8 at \$1,200	9,600 00
Stenographer and Typewriter	1,350 00
Typewriting Copyist	750 00
Clerk	900 00
Messenger	1,500 00
Schedule total	\$72,450 00
Tax levy, part allowance	\$22,150 01
Special and trust fund, part allowance	50,299 99
Total allowance	\$72,450 00
Temporary Employees—Special and Trust Fund Force:	
Assistant Engineer, 10 at \$1,800	\$18,000 00
Chemist, 2 at \$1,200	2,400 00
Schedule total	\$20,400 00
Special and trust fund allowance	\$20,400 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending, the modification of a corporate stock salary schedule in said Department for the year 1912 to provide for the addition of one Assistant Electrical Engineer, at the rate of \$2,400 per annum; two Draftsmen, at \$1,500, and six Inspectors, at \$1,500 per annum, respectively;

Fire Department of The City of New York, Office of the Commissioner, July 10, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman Board of Estimate and Apportionment:

Sir—The Board of Estimate and Apportionment, at meeting held May 16, 1912, at the request of this Department, adopted a resolution pursuant to the provisions of section 56 of the Greater New York Charter, recommending to the Board of Aldermen the establishment of certain new positions in this Department, which resolution was approved of and concurred in by the Board of Aldermen at meeting held June 11, 1912, and became effective, without the approval or disapproval of the Mayor, July 2, 1912.

These positions are required in connection with the work of improving the fire alarm telegraph system in various Boroughs for which corporate stock issues have been authorized, and are as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Assistant Electrical Engineer	\$2,400 00	1
Draftsman	1,500 00	2
Inspector	1,500 00	6

I have therefore the honor to request that corporate stock salary schedule for this Department for the year 1912 be modified as follows:

C. F. D. No. 3—B, Fire Alarm Telegraph, Borough of Manhattan, Installation of New System, by including thereon two Inspectors at \$1,500 per annum each.

C. F. D. No. 22, Underground Electrical Conductors, Borough of Brooklyn, by including thereon two Inspectors at \$1,500 per annum each.

Also that there be incorporated in said corporate stock salary schedule for the year 1912 the following positions:

C. F. D. No. 32—A, Fire Alarm System, Borough of The Bronx, Underground Installation and Apparatus:

	Per Annum.
1 Assistant Electrical Engineer	\$2,400 00
2 Draftsmen, each	1,500 00
2 Inspectors, each	1,500 00

As the needs of the work in progress require at once the services of the employees specified, I have the honor to request prompt action on this application. Respectfully,
 JOSEPH JOHNSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1912, the Fire Commissioner requested modification of a corporate stock salary schedule in his Department for 1912. In connection therewith, I report as follows:

The request is in the Fire Alarm Telegraph Bureau. It is proposed to add one Assistant Electrical Engineer at the rate of \$2,400 per annum, two Draftsmen at \$1,500, and six Inspectors at \$1,500. It is stated that the services of the Assistant Electrical Engineer and two Draftsmen are required for the preparation of plans and specifications in connection with the installation of the proposed underground system in the Borough of The Bronx. For supervision of this work, when contracts for construction are awarded, the services of two Inspectors will be required. The services of two Inspectors in Manhattan and two in Brooklyn are stated to be necessary at once for supervision of work on contracts awarded in connection with the underground telegraph system in those Boroughs.

The additional positions were established for this purpose by the Board of Estimate and Apportionment and the Board of Aldermen on May 16, 1912, and June 11, 1912, respectively.

I recommend the adoption of the attached resolution granting the request. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered: Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as revised, for the Fire Department for the year 1912, as follows:

Table with 2 columns: Position and Salary. Includes Fire Department, Personal Service, Maintenance, Manhattan, The Bronx and Richmond, Fire Alarm Telegraph, Manhattan. Salaries, Regular Employees, Corporate Stock Force.

Table with 2 columns: Position and Salary. Includes Personal Service, Maintenance, Brooklyn and Queens, Fire Alarm Telegraph. Salaries, Regular Employees, Corporate Stock Force.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond, requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 920 for said Department to permit of an increase in the number of Gymnasium Attendants:

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, July 8, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, 280 Broadway, New York City: Dear Sir—I respectfully recommend a modification of Schedule No. 920 in the Budget for the year 1912 by transferring \$12,000 from the line item reading "Gymnasium Attendants at \$4 per day (4,000 days)" to the line item reading "Gymnasium Attendants at \$3 per day (4,000 days)," thereby decreasing the number of days provided for Playground Attendants at \$4 per day by 3,000 days, and increasing the days provided for Attendants at \$3 a day by 4,000 days.

This modification is requested so as to provide more Attendants for the playgrounds opened during this year, and I am of the opinion that it will improve the efficiency of the Department, as well as enable me to administer the playgrounds in the most economical manner. The schedule will then read:

Table with 2 columns: Position and Salary. Includes 920. Wages, Temporary Employees—Gymnasium Attendant, at \$4 per day (1,000 days) \$4,000 00; Gymnasium Attendant, at \$3 per day (8,000 days) 24,000 00; Playground Attendant, at \$3 per day (4,000 days) 12,000 00; Playground Attendant, at \$2 per day (4,500 days) 9,000 00. Total \$49,000 00.

Your immediate action upon this matter is respectfully requested. Respectfully yours, CHAS. B. STOVER, Commissioner of Parks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912. To the Board of Estimate and Apportionment:

Gentlemen—On July 8, 1912, the Commissioner of Parks, Manhattan and Richmond, requested modification of salary schedule No. 920, Playgrounds, Wages, Temporary Employees. In connection therewith I report as follows: The Commissioner states that owing to the opening of new playgrounds it is necessary to increase the number of Gymnasium Attendants. To provide for the additional Attendants, therefore, it is proposed to change the line reading "Gymnasium Attendants at \$4 per day (4,000 days), \$16,000," to "Gymnasium Attendants at \$4 per day (1,000 days), \$4,000," and the line reading "Gymnasium Attendants at \$3 per day (4,000 days), \$12,000," to "Gymnasium Attendants at \$3 per day (8,000 days), \$24,000."

Table showing line item changes in detail. Columns: Account No., Schedule Line, Schedule Transfer (Decrease, Increase), Cash Transfer (Decrease, Increase). Row 920: Gymnasium Attendants, at \$4 per day (4,000 days) \$12,000 00 decrease, \$12,000 00 decrease; Gymnasium Attendants, at \$3 per day (8,000 days) \$12,000 00 increase, \$12,000 00 increase.

I recommend the adoption of the attached resolution approving the request. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered: Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the Park Department, Manhattan and Richmond, for the year 1912, as follows:

Table with 2 columns: Position and Salary. Includes Personal Service, Playgrounds. 920 Wages, Temporary Employees: Gymnasium Attendant, at \$4 per day (1,000 days) \$4,000 00; Gymnasium Attendant, at \$3 per day (8,000 days) 24,000 00; Playground Attendant, at \$3 per day (4,000 days) 12,000 00; Playground Attendant, at \$2 per day (4,500 days) 9,000 00. Total \$49,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Sheriff of Kings County relative to, and report of the Comptroller recommending, the approval of schedule for the office of said Sheriff, covering the appropriation of \$1,250 special revenue bonds (subdivision 7, section 188 of the Charter), for 246 Special Deputy Sheriffs, for services rendered at the primary election held March 26, 1912:

(On May 2, 1912, the request of the Sheriff of Kings County for this appropriation was referred to the Comptroller.)

Office of the Sheriff of Kings County, 186 Remsen Street, Borough of Brooklyn, New York City, N. Y., April 11, 1912.

Mr. J. HAAG, Secretary, Board of Estimate and Apportionment, New York, N. Y.:

Dear Sir—I hereby respectfully request that the Board of Estimate and Apportionment issue special revenue bonds in the amount of twelve hundred and thirty dollars (\$1,230) for the purpose of paying the hereinafter named Special Deputy Sheriffs for services rendered in the preservation of peace and order at the various polling places at the Primary Election in Kings County, held on March 26, 1912.

On March 25, 1912, I received two communications from the Governor of the State of New York, copies of which are hereto attached. From other sources on the same day I was advised that there was a reason to believe that illegal voting would be attempted and violence offered at the various polling places in the Fifteenth Assembly District. Acting upon these advices, and with a view to preserving order in all the districts where contests were being waged, I summoned the Special Deputy

Sheriffs theretofore appointed by me and secured a force of two hundred and forty-six men, of which one hundred and sixty-two men were assigned to specified polling places, and the balance held in reserve at the Sheriff's office to be sent out in case disorder at any point was reported to me.

The majority of these men were compelled to leave their ordinary occupation and suffer actual financial loss thereby. I deem it proper that these men should be compensated at the rate of five dollars (\$5) per day each. I recommend this amount for the reason that that is the amount paid per day to Primary Election Inspectors, Ballot Clerks, etc. It would seem that a like amount would be fair compensation for the services rendered by the said Special Deputy Sheriffs.

The following is a complete list of the names and addresses of the Special Deputy Sheriffs who were either actually assigned to duty at the various polling places or held in reserve at the Sheriff's office, and for whose compensation the above request is made, to wit:

- 1. L. G. Andrews, 185 Marion street; 2. P. King, 235 Clermont avenue; 3. R. Richey, 663 Park avenue; 4. Jacob Simon, 550 Macon street; 5. Max Schechtel, 112 Belmont avenue; 6. Geo. Transier, 167 Knickerbocker avenue; 7. Salvatore Scotti, 21 McKibben street; 8. J. T. Crowell, 1166 Fulton street; 9. M. A. Compeller, 331 Shepherd avenue; 10. G. M. Blau, 320 Baltic street; 11. E. Carrai, 318 20th street; 12. L. Freedman, 295 Christopher street; 13. M. Goodman, 670 Broadway; 14. Geo. E. Skidmore, 285 Hicks street; 15. F. H. Riechers, 341 West street; 16. J. I. Gottlieb, 1775 Pacific street; 17. Frank Leno, 214 52d street; 18. R. A. Steyert, 332 16th street; 19. M. Pally, 75 Chester street; 20. Henry P. Lam, 369 Bridge street; 21. L. Goldstein, 162 Chester street; 22. Solomon Waldon, 173 Greenpoint avenue; 23. Jacob Schumacher, 252 Floyd street; 24. C. H. May, 155 Bainbridge street; 25. M. C. Hoyt, 228 Quincy street; 26. C. Dougherty, 134 North 4th street; 27. W. W. Burton, 535 Classon avenue; 28. L. Ropp, 230 Bond street; 29. F. Schultz, 91 1st street; 30. H. H. Heidel, 116 Lorimer street; 31. T. P. Mulvey, 92 Pioneer street; 32. John Schultz, 92 Pioneer street; 33. Theo. Krombach, 753 3d avenue; 34. W. A. Henchel, 415 36th street; 35. Mortimer Weinberg, 51 Stony place; 36. J. T. Fairman, 258 Albany avenue; 37. L. Harry Fisher, 367 Fulton street; 38. A. Naedelstein, 521 New Jersey avenue; 39. Theo. Schwartzman, 1600 Eastern parkway; 40. Edward Sweeney, 115 Powers street; 41. E. W. Shipman, 196 Etna street; 42. M. J. Hayes, 528 7th avenue; 43. Adolph Aberle, 73 Montrose street; 44. H. E. P. Bell, 330 19th street; 45. Sidney Heiman, 2163 E. 19th street; 46. F. T. Boetz, 1056 Myrtle avenue; 47. I. H. Rosenberg, 634 Kosciuszko street; 48. J. Grogan, 154 Albany avenue; 49. G. G. Spackman, 96 Reid avenue; 50. C. A. Fitzpatrick, 225 Schaeffer street; 51. J. Gerken, 88 Tompkins avenue; 52. C. A. Smith, 648 Lafayette avenue; 53. Jos. N. Acker, 94 Pine street; 54. F. Wildpret, 229 Walworth street; 55. Edward Kingsley, 1018 Park place; 56. A. Ruth, 243 Stockholm street; 57. Walter S. Pitts, 879 Herkimer street; 58. Edward Kessler, 930 Rockaway avenue; 59. B. Bernstein, 746 Rockaway avenue; 60. P. Meany, Bay 17th street; 61. Wm. Campbell, 849 Manhattan street; 62. Walter Higgins, 533a Quincy street; 63. J. A. Zeigler, 414 Marion street; 64. Antonio Lobosco, 1002 40th street; 65. A. H. Rosenblum, 439 Court street; 66. W. J. Haubert, 20 Suydam street; 67. Dr. F. B. Skelly, 1261 E. 29th street; 68. F. P. Kapper, 448 7th street; 69. J. Chickering, 1389 Madison street; 70. M. Griffin, 319 Eckford street; 71. Henry L. Moninger, 658 Leonard street; 72. William Anderson, 1141 Penn avenue; 73. August A. Reynolds, 588 Leonard street; 74. J. E. Henschell, 648 Manhattan avenue; 75. G. E. Odell, 2097 Pacific street; 76. Jacob Krockow, 1225 59th street; 77. C. H. Cottrell, 112 Conklin avenue; 78. F. Walter Abbott, 20 St. Felix street; 79. C. H. Notis, 177 Suffield street; 80. Charles Bruchlacher, 332 Cornelia street; 81. Anthony J. Scholl, 119 Cooper street; 82. J. Newberger, 333 Stanhope street; 83. Max Schechtel, 112 Belmont avenue; 84. Wm. H. Chambers, 2524 Albemarle road; 85. W. Hetherington, 1124 Putnam avenue; 86. H. W. Fenon, 47 Graham avenue; 87. J. Florio, 49 Spencer street; 88. Eugene Leary, 330 Myrtle avenue; 89. Hyman Koreman, 1465 60th street; 90. Paul Von Kaentzel, 791 Livingston avenue; 91. Wm. Wolff, 668 Broadway; 92. J. Friedman, 106 Nichols avenue; 93. F. G. Hewson, Brooklyn Hospital, 141 Grand street; 94. J. Leary, 151 St. Marks avenue; 95. T. Callahan, 238 52d street; 96. Charles Maxson, 129 Sumpter street; 97. Arthur J. Klemeyer, 2501 Avenue D; 98. H. Falk, 1358 43d street; 99. Isadore Stermen, 224 Boerum street.

- 100. Samuel Sachs, 398 Bleeker street; 101. A. Angeloer, 403 Humboldt avenue; 102. Louis Levy, 1094 Myrtle avenue; 103. Emil M. Schubert, 319 Van Siclen avenue; 104. Morris Kolodin, 31 Manhattan avenue; 105. A. Henn, 25 Hamburg avenue; 106. Geo. Wolff, 1532 Gates avenue; 107. M. Gordon, 386 Van Siclen avenue; 108. W. H. French, 957 39th street; 109. J. S. Costello, 256 Nassau avenue; 110. Thos. Whitney, 821 Nostrand avenue; 111. G. Eysel, 159 42d street; 112. H. Rau, 15 Wyona street; 113. Edward J. Bredehoff, 251 Clifton place; 114. John Tyrrell, 969 Jefferson avenue; 115. Samuel Lipstein, 145 Chester street; 116. Jacob D. Schneider, 583 Pacific street; 117. Joseph Fleischer, 1427 Pitkin avenue; 118. W. J. Malone, 885 Kent avenue; 119. Wm. Higgins, 71 Grand street; 120. Edward A. Ansart, 1696 Broadway; 121. Ike Cohen, 267 S. 5th street; 122. J. Goller, 212 N. 8th street; 123. G. Muratore, 304 Metropolitan avenue; 124. F. Klinck, 3903 Farragut road; 125. Wm. Primrose, 62 Powers street; 126. J. Nass, 413 Van Siclen avenue; 127. Peter F. Ward, 373 Weirfield street; 128. David Weil, 224 Weirfield street; 129. B. Fengunder, 22 Garfield place; 130. N. Dono, 256 4th avenue; 131. M. Santoti, 630 Union street; 132. M. Albozio, 985 38th street; 133. J. Rode, 40 Heywood street; 134. A. Hoffman, 170 Ellery street; 135. Elias Selpe, 384 Sheffield street; 136. D. Metzger, 50 Broadway; 137. Wm. J. Magee, 67 Underhill avenue; 138. Francis W. O'Neill, 211 Duffield street; 139. James M. Campbell, 22 Patchen avenue; 140. Edward Fenten, 151 Adams street; 141. Samuel D. Jenkins, 198 Berriman; 142. S. C. Coby, 749 Monroe street; 143. Albert Lachman, 372 Palmetto street; 144. M. Cohen, 203 S. 4th street; 145. C. Muhlbauer, 159 Central avenue; 146. Fred Asher, 711 Manhattan avenue; 147. Vincent Alonzo, 155 Meserole street; 148. Charles Kues, 1144 Bushwick avenue; 149. F. Schwartz, 2223 Canarsie lane; 150. John J. Lane, 1290 Park place; 151. L. Bloch, 35 Morrell street; 152. J. Heitmann, 6900 5th avenue; 153. J. T. Gibson, 466 Linwood street; 154. Simon Karason, 594 Shepherd avenue; 155. Harry W. Adams, 265 Flatbush avenue; 156. S. Finkelman, 216 Sackett street; 157. Frank H. Wilson, Sullivan street and Cedar place; 158. Louis Lipman, 466 15th street; 159. Eugene C. Waldner, 64 Patchen avenue; 160. Edward J. Keenan, 36 Macon street; 161. W. L. Brown, 20 St. Johns place; 162. S. Solomon, 708 Livingston avenue; 163. A. E. Holmes, 70 Conselyea street; 164. M. Smith, 334 Hopkins avenue; 165. J. Pearl, 1545 St. Marks avenue; 166. V. Mancuso, 403 Church avenue; 167. G. Harburg, Jr., 663 5th avenue; 168. A. L. Peirano, 36 Bond street; 169. Robert Herman, 327 Glenmore avenue; 170. C. W. Francis, E. 92d and Avenue K; 171. Herman Grand, 263 Kingston avenue; 172. J. Drobos, 251 Sutter avenue; 173. Louis Bernstein, 30 Thatford avenue; 174. R. Fitzgerald, 127 29th street; 175. J. R. Gollo, 376 Graham avenue; 176. S. Perri, 14 Skillman avenue; 177. Adolph Harbart, 97 N. 8th street; 178. J. Chimento, 246 Gold street; 179. Blecker Rangs, 400 Lafayette avenue; 180. F. J. Roberts, 17 Diamond street; 181. John Kane, 927 Dean street; 182. G. W. Mathews, 681 Vanderbilt avenue; 183. Jos. W. Harburg, 548 2d street; 184. B. Cicherela, 5 Maspeth avenue; 185. Henry Zelinger, 120 1st street; 186. F. H. Mergenthaler, 884 Broadway; 187. T. F. Sagona, 5405 5th avenue; 188. John F. Heyer, 375 Himrod street; 189. Eugene B. Lawrence, 648 Prospect place; 190. P. M. Housley, 978 Lafayette avenue; 191. V. Benenaca, 90 Spencer street; 192. M. Prescott, 49 Harrison avenue; 193. V. D. Ambrosio, 2837 W. 17th street; 194. James Lefante, 33 Havemeyer street; 195. C. Houghtaling, 451 Wythe avenue; 196. W. H. Hogan, 139 Franklin avenue; 197. John Higgins, 810 Kent avenue; 198. Wm. Burns, 163 Park avenue; 199. F. Albers, 239 Linden street.

- 200. F. Ryan, 14 Nelson street; 201. Henry Wolff, 489 6th avenue; 202. R. Cuicio, 362 Metropolitan avenue; 203. Benjamin Schwartz, 1703 St. Johns place; 204. John Quinn, 214 Albany avenue; 205. James Murray, 113 Adelphi street; 206. Charles A. Hurtz, 123 Sumner avenue; 207. Louis Cicio, 143 Humboldt street; 208. A. Miller, 156 Albany avenue; 209. John F. Tully, 228 Warren street; 210. Henry Agricola, 1363 Putnam avenue; 211. T. E. Gordon, 495 E. 4th street; 212. W. E. Hillman, 1342 Bushwick avenue; 213. W. A. Keyser, 641 Hancock street; 214. A. B. Cornell, 125 New Jersey avenue; 215. Wm. Kammer, 420 Elder street; 216. J. Hessel, 712 Schenck avenue; 217. M. Burke, 9 14th street; 218. L. Schwab, 184 Bay 19th street; 219. J. Nealis, 165 Douglass street; 220. V. Kirby, 493 Chauncey street; 221. J. Gaiser, 587 Quincy street; 222. A. Hessel, 669 New Lots road; 223. Geo. Robbins, 44 Oakland street; 224. Clarence D. Schofield, 65 Stuyvesant avenue; 225. James A. Garvin, 790 Manhattan avenue; 226. A. H. Miller, 624 E. 16th street; 227. J. B. Crompton, 1116 Gates avenue; 228. C. V. Ritter, 414 7th street; 229. C. P. Freelen, 73 Guersney street; 230. C. Mason, 205 Troy avenue; 231. F. Schepp, 376 Gravesend avenue; 232. Stephen A. O'Conner, 228 Bergen street; 233. G. H. Ericson, 535 Atlantic avenue; 234. J. J. Greenzing, 261 Dean street; 235. S. M. Fitzgerald, 930 Pacific street; 236. J. McLoughlin, 569 40th street; 237. J. Goldstein, 304 Ellery street; 238. Geo. E. Golding, 40 McDonough street; 239. Charles C. Sawyer, 163 Dean street; 240. L. A. Gentile, 67 Duffield street; 241. L. Mairson, 690 Flushing avenue; 242. Morris Bellakowsky,

30 Throop avenue; 243, Nathan Kretzman, 254 Stockholm street; 244, Jacob Jung, Jr., 417 Stanhope street; 245, Stephen Will, 151 Stagg street; 246, Wm. Hewett, 2762 Fulton street. Very respectfully yours,
 CHARLES B. LAW.

State of New York, Executive Chamber, Albany, March 22, 1912.
 Hon. CHARLES B. LAW, Sheriff of the County of Kings, Brooklyn, New York:
 Dear Sir—I have received copy of resolutions adopted at a meeting of the Petitioners of the Regular Enrolled Republicans at Havemeyer street, in the Borough of Brooklyn, as follows:

"Resolved, Whereas, it was brought to the attention of the petitioners that unlawful methods were invoked at previous Primary Elections, in this district. That methods of intimidation, coercion and repeating will perhaps be resorted to by the opposing forces, in order to prevent the legally registered voters from participating at the coming Primary, in the 14th Assembly District; it was therefore further
 "Resolved, That the chairman of the meeting be and is hereby authorized and directed to communicate with his Excellency the Governor of the State of New York and request him to instruct the Sheriff of the County of Kings, as well as the Commissioner of Police of The City of New York, that they shall use all means to prevent any and all unlawful means which might come to their notice at the coming Primary Election, which will be held on the 26th day of March, 1912; and it is further
 "Resolved, That a copy of these resolutions be mailed to the Governor of the State of New York and to the Police Commissioner of The City of New York."
 I beg to advise you accordingly. Very respectfully,
 (Signed) JOHN A. DIX.

State of New York, Executive Chamber, Albany, March 23, 1912.
 Hon. CHARLES B. LAW, Sheriff of Kings County, Brooklyn, New York:

Dear Sir—I have been advised that at the Primary Election to be held on the 26th inst. there is reason to believe that illegal voting will be attempted and violence offered in defiance of the Election Law at the various polling places in the Thirteenth Assembly District, in the County of Kings.

While I have not the slightest doubt that you are prepared to fully perform your official duties in connection with the Primary Election, I especially call your attention to the foregoing particulars, that you may be prepared for any emergency which should arise. Yours very truly,
 (Signed) JOHN A. DIX.
 Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On April 11, 1912, the Sheriff of the County of Kings requested an appropriation of \$1,230 in special revenue bonds to pay 246 Special Deputy Sheriffs for services rendered at the various polling places at the Primary Election in Kings County, held March 26, 1912. In connection therewith I report as follows:

The Sheriff states that on March 22 and 23, 1912, the Governor advised him that he had been officially informed that it was believed that intimidation, coercion and other unlawful methods would likely be used to prevent the legally registered voters from participating in Primary Election to be held on March 26, 1912, in the County of Kings. The Sheriff further states that the Governor called upon him to be prepared for any emergency that might arise in connection with the said election. Pursuant to the advice and command of the Governor, the Sheriff states that he thereupon appointed and swore in as Special Deputy Sheriffs a force of 246 men for the purpose of preserving order at the polls. One hundred and sixty-two of these Special Deputies were assigned to specified polling places, and the eighty-four others were held in reserve at the Sheriff's office to be sent out in case disorder at any polling place was reported. The compensation requested for these Special Deputies is five dollars each. No appropriation for such services was made in the 1912 Budget for the Sheriff's office.

Chapter 11, article 15, section 240 of the Consolidated Laws provides, in part, as follows:

County Charges. The following are county charges:
 1. Charges incurred against the county by the provisions of this chapter.

9. The moneys necessarily expended by any county officer in executing the duties of his office in cases in which no specific compensation for such services is provided by law.

As provision is mandatory, the necessary funds will be provided by the Comptroller, under subdivision 7 of section 188 of the Greater New York Charter. I recommend the adoption of the attached resolution approving a schedule for the fund. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the office of the Sheriff of Kings County for the year 1912, as follows:

Sheriff, Kings County.
 Special Revenue Bond—
 Compensation of Special Deputy Sheriffs, 246 at \$5..... \$1,230 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the County Clerk of Queens County relative to, and report of the Comptroller recommending, the approval of Schedule 2409 for the office of said County Clerk, for the year 1912, to cover an appropriation of \$20,886 for recopying and transcribing torn and mutilated books of public record:

Queens County Clerk's Office, Jamaica, N. Y., June 24, 1912.
 Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York, 280 Broadway, New York City:

Dear Sir—Application is hereby made for an issue of revenue bonds in the sum of \$22,896, under subdivision 7 of chapter 188 of the Charter of The City of New York, for the purpose of continuing the work of recopying and transcribing the books of public record in this office.

When I submitted my departmental estimate for this work I did not think that there would be so many books condemned by the Commissioners and ordered recopied, but they made an extensive examination and recommended the recopying of a greater number of books than I at first anticipated. The result is I have about exhausted the amount appropriated, and in order to carry out the directions of the Supreme Court it will be necessary to have the amount asked for in order to complete the work. The work is directed to be done under chapter 518 of the Laws of 1901, as amended by chapter 435 of the Laws of 1904, and the Supreme Court has made an order directing the work to be done. This makes the payments mandatory, and I am asking for this amount under subdivision 7 for that reason.

Can I ask your early and favorable consideration of this matter, and oblige, yours very truly,
 MARTIN MAGER, Clerk.
 Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On June 24, 1912, the County Clerk of Queens County requested \$22,896 in special revenue bonds, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter, the proceeds to be used for recopying and transcribing torn and mutilated books of public record in his office. In connection therewith I report as follows:

On March 11, 1912, by an order of the Supreme Court, County of Queens, Clinton T. Roe and Frank L. Stiles were appointed Commissioners to examine all books of record, indices, maps, etc., in the office of the Clerk of the County of Queens, and to condemn all such as shall appear to them to be in a torn and mutilated condition and to certify to the Court all of the same which are torn and mutilated and which should be recopied and preserved. On April 27, 1912, a Court order was made, approving and confirming a report of the said Commissioners, and further ordering the said County Clerk, in pursuance of said report, to recopy and transcribe the books of record recommended by the said Commissioners to be recopied.

The action in the matter was taken pursuant to the provisions of chapter 435 of the Laws of 1904.

The County Clerk estimates the cost of the recopying as follows:
 Index books, 25 at \$175 \$4,375 00
 Libers, 77 at \$225 17,315 00
 Balance of books required to complete work ordered, 67 at \$18 1,206 00

\$22,896 00

The estimate of \$175 as the average cost of recopying the index books appears to be excessive, \$155 being a fair amount for the same. The approximate cost of the libers will amount to \$205 each instead of \$225, as given by the County Clerk. The probable cost of the work, therefore, is as follows:

Index books, 25 at \$155 \$3,875 00
 Libers, 77 at \$205 15,785 00
 Balance of books required to complete work ordered, 67 at \$18 1,206 00

\$20,866 00

Payment for this recopying being a mandatory county charge, the Comptroller will make provision for the same, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I therefore recommend the adoption of the attached resolution modifying the proper schedule to include the fund. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule as revised for the office of the County Clerk, Queens County, for the year 1912, as follows:

COUNTY CLERK, QUEENS COUNTY.
 Personal Service.

Administration—
 2407 Recopying and Transcribing Books of Public Record \$37,034 00
 Tax levy allowance \$16,168 00
 Revenue bond allowance 20,866 00
 Total allowance \$74,068 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Correction relative to, and report of the Comptroller recommending, the approval of a schedule for said Department for the year 1912, to take effect as of June 1, 1912, covering the appropriation of \$4,141.66, special revenue bonds, subdivision 7, section 188 of the Charter, for salaries of a Warden, Matron, Orderly and Keepers (3) for the Queens County Jail:

City of New York, Department of Correction, June 18, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, No. 277 Broadway, New York City:

Dear Sir—In accordance with chapter 456, Laws of 1912, this Department took over the care of the Queens County Jail at midnight on Friday, May 31, 1912.

In order that provision may be made for the balance of the year for the maintenance of the above mentioned institution, I would respectfully request the transfer to the credit of the Department of Correction of the unencumbered balances of the appropriations for salaries, maintenance, etc., of the Queens County Jail for the year 1912, as listed below:

2416 Salaries, Regular Employees..... \$10,558 60
 Supplies and Materials.
 Maintenance, County Jail.
 2418 General 599 21
 2419 Food Supplies for Employees and Civil Prisoners..... 5,437 08
 Repairs and Replacements by Contract or Open Order.
 Maintenance.
 2420 County Jail \$141 09

As provision must be made for the payment, for the current month, of the salaries of the employees transferred to this Department, I trust that your Honorable Board will take favorable action in the matter. Very respectfully,
 WM. J. WRIGHT, Deputy and Acting Commissioner.

Department of Correction of The City of New York, Commissioner's Office, 148 East 20th Street, New York, June 22, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—Pursuant to the provisions of subdivision 7, section 188, of the Greater New York Charter, I would respectfully request the issuance of special revenue bonds to the amount of \$8,351.66, to provide means for the payment of the salaries of the employees of Queens County Jail, transferred to this Department June 1, in accordance with chapter 456, Laws of 1912.

This amount will provide for the payment of the salaries from June 1 to December 31, 1912, of the following that are taken over into this Department:

Warden \$2,000 00
 Orderly 1,300 00
 Keepers, 3 at \$1,000..... 3,000 00
 Matron 800 00
 \$7,100 00

Amount required for 7 months..... \$4,141 66

And for the following additional help which will be needed:
 Drivers, 2 at \$1,000..... \$2,000 00
 Cook 720 00
 Matrons, 2 at \$600..... 1,200 00
 Keepers, 3 at \$800..... 2,400 00
 Physician 1,200 00
 Clerk 900 00
 \$8,420 00

Amount required from July 1 to December 31, 1912, 6 months..... 4,210 00

Total \$8,351 66

Trusting that this will meet with your approval, I am,
 Very respectfully,
 PATRICK A. WHITNEY, Commissioner.

City of New York, Department of Correction, June 22, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—In order to provide for the proper administration of the Queens County Jail, which was on June 1 transferred (by chapter 456, Laws of 1912), to the care of the Department of Correction, I would respectfully request the honorable the Board of Estimate and Apportionment to amend the salary schedule of this Department by adding the names and salaries of the following employees transferred:

Henry O. Schlehle, Warden..... \$2,000 00
 William E. Dennis, Orderly..... 1,300 00
 Elizabeth Morgan, Matron..... 800 00
 Harry Evans, Keeper..... 1,000 00
 Joseph A. McCann, Keeper..... 1,000 00
 Patrick Guilfoil, Keeper..... 1,000 00

Salaries to be paid from June 1 to December 31, 1912.

In addition to the above, it will be necessary, in order to properly maintain the Jail, to provide for the services of:

Drivers, 2 at \$1,000..... \$2,000 00
 Cook 720 00
 Matrons, 2 at \$600..... 1,200 00
 Keepers, 3 at \$800..... 2,400 00
 Physician 1,200 00
 Clerk 900 00

Salaries to be paid from July 1 to December 31, 1912.

The following schedule lines are suggested:

Administration.

Warden \$2,000 00
 Physician 1,200 00
 Clerk 900 00
 Matron 800 00
 Matrons, 2 at \$600..... 1,200 00

\$6,100 00

Operation.	
Orderly	\$1,300 00
Drivers, 2 at \$1,000.....	2,000 00
Cook	720 00
Keepers (6)	5,400 00
	\$9,420 00

Trusting that this matter will receive your early attention, I am,
Very respectfully,
PATRICK A. WHITNEY, Commissioner.
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On June 22, 1912, the Commissioner of Correction requested \$8,351.66 in special revenue bonds, under subdivision 7 of section 188 of the Greater New York Charter, to provide means for the payment of salaries of employees transferred from Queens County Jail to the Department of Correction, under the provisions of chapter 456, Laws of 1912, and for additional employees from July 1 to December 31, 1912. In connection therewith I report as follows:

Chapter 456 of the Laws of 1912, amending section 695 of the Greater New York Charter, provides as follows:

The Commissioner [Correction] shall have jurisdiction over and it shall be his duty to take charge of and manage all institutions for the care and custody of criminals and misdemeanants which belong to or shall be hereafter acquired by The City of New York. * * * The buildings now used as jails in the Counties of Kings and Queens are hereby placed under the control and authority of the Commissioner; and all persons other than those detained by civil process who by law are committed to the custody of the Sheriffs of the Counties of Kings and Queens respectively, are hereby placed in the custody of the Commissioner. * * * Each and every warden, deputy warden, jail keeper, van driver, matron, assistant matron, cook, assistant cook, laundress, cleaner, book-keeper, jail physician and orderly who on the first day of January, nineteen hundred and twelve, was, in accordance with the provisions of law, employed as such in and about such county jails, and who shall continue to be so employed at the time of the transfer of such jails to the Department of Correction * * * and who shall prior thereto have successfully passed a civil service examination * * * shall be retained and assigned to perform the same service in the same institution in which they are employed at the time the Department of Correction shall have assumed control and the management of the buildings now used as jails in the Counties of Kings and Queens.

Under these provisions the Commissioner of Correction has taken charge of the Queens County Jail and requests the transfer of the following employees to his Department at the same rate of compensation as now received:

Warden	\$2,000 00
Orderly	1,300 00
Keepers, 3 at \$1,000.....	3,000 00
Matron	800 00
	\$7,100 00

The funds appropriated for their services as employees of the Sheriff of Queens County being a county charge, cannot be transferred to a City account. Request is therefore made for \$4,141.66 in special revenue bonds to provide for their salaries from June 1 to December 31, 1912.

Request is also made for \$4,210 in special revenue bonds for the employment of additional help from July 1 to December 31, 1912, to be issued under the provisions of subdivision 7 of section 188 of the Greater New York Charter. Funds for this purpose must be provided under subdivision 8 and application for same should be made to the Board of Aldermen.

Bonds to the necessary amount of \$4,141.66 will be issued by the Comptroller, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution approving a schedule for the fund. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of special revenue bond salary schedule for the Department of Correction, for the year 1912, to take effect as of June 1, 1912, as follows:

DEPARTMENT OF CORRECTION.													
<i>Personal Service, Administration, Queens County Jail.</i>													
Salaries, Regular Employees, Special Revenue Bond Force:													
Warden	\$2,000 00												
Matron	800 00		\$2,800 00	<i>Personal Service, Operation, Queens County Jail.</i>		Salaries, Regular Employees, Special Revenue Bond Force:		Orderly	\$1,300 00	Keeper, 3 at \$1,000.....	3,000 00		\$4,300 00
	\$2,800 00												
<i>Personal Service, Operation, Queens County Jail.</i>													
Salaries, Regular Employees, Special Revenue Bond Force:													
Orderly	\$1,300 00												
Keeper, 3 at \$1,000.....	3,000 00		\$4,300 00										
	\$4,300 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting the modification of salary schedule No. 1930 for the President of the Borough of Brooklyn to take effect as of August 1, 1912, to provide for eliminating certain positions and increasing salaries of a number of employees:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, May 27, 1912.
Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—I would respectfully request that you kindly have your Bureau of Statistics prepare a report recommending to the Board of Estimate and Apportionment the adoption of a resolution modifying salary schedule No. 1930, Bureau of Sewers, this Department, as follows:

Eliminate line: 34 Inspectors, Sewer Construction, at \$4 a day, for 314 days;—and substitute therefor the lines:
17 Inspectors, Sewer Construction, at \$4.93 a day, for 314 days;
13 Inspectors, Sewer Construction, at \$4 a day, for 314 days.

This proposed modification is for the purpose of increasing a number of worthy and deserving Inspectors of Sewer Construction who have been working in our Sewer Bureau a great many years without any increase in compensation. These men are faithful, intelligent and experienced, and it would seem only fair that they should receive increased compensation.

We have recently lost some of our best Inspectors owing to transfers to other Departments better inducements having been offered them.

If agreeable, I shall be very glad to take this matter up personally with your Bureau of Statistics, and show and urge the necessity of the above-mentioned schedule. Yours very truly,
L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On May 27, 1912, the Acting President of the Borough of Brooklyn requested modification of a salary schedule in his office for the year 1912. In connection therewith I report as follows:

It is proposed to eliminate 34 Inspectors of Sewer Construction, at \$4 a day (314 days), and substitute 17 Inspectors of Sewer Construction at \$4.93 a day (314 days) and 13 Inspectors of Sewer Construction at \$4 a day (314 days).

It is stated that the purpose of the request is to increase a number of employees who have given faithful and efficient service, and to prevent further loss of Inspectors of intelligence and experience who, by transfer to other departments, have received higher salaries.

The changes are within the appropriation, and conform to the policy of your Board.

I recommend the adoption of the attached resolution granting the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the President of the Borough of Brooklyn for the year 1912, to be effective as of August 1, 1912, as follows:

<i>Sewers, Engineering.</i>									
1930 Wages, Regular Employees, Tax Levy and Special and Trust Fund Force—									
Inspector of Sewer Construction, 17 at \$4.93 per day (314 days)....	\$26,316 34								
Inspector of Sewer Construction, 13 at \$4 per day (314 days).....	16,328 00								
Driver, 2 at \$2.50 per day (314 days).....	1,570 00								
Laborer, 4 at \$3 per day (314 days).....	3,768 00								
Laborer, 5 at \$2.50 per day (314 days).....	3,925 00								
Laborer, 5 at \$2.50 per day (366 days).....	4,575 00	Schedule Total	\$56,482 34	Tax Levy, Part Allowance.....	\$6,343 00	Special and Trust Fund, Part Allowance.....	50,139 34		\$56,482 34
Schedule Total	\$56,482 34								
Tax Levy, Part Allowance.....	\$6,343 00								
Special and Trust Fund, Part Allowance.....	50,139 34		\$56,482 34						
	\$56,482 34								

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communications from the President of the Borough of The Bronx requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 1858 for the office of said Borough President, to be effective June 1, 1912, in order to increase a Consulting Engineer from \$6,000 to \$7,200, an Assistant Engineer from \$2,400 to \$3,300, two Clerks, one from \$1,650 to \$1,800 and one from \$900 to \$1,050, and to provide for the position of Assistant Commissioner of Public Works, at \$4,000 per annum, instead of \$4,500:

The City of New York, President of the Borough of The Bronx, 3d avenue and 177th street, Office of the President, May 24, 1912.

To the Honorable the Board of Estimate and Apportionment:
Gentlemen—Request is hereby respectfully made for a modification as of May 1, 1912, of the schedule lines supporting the appropriation made to the President of the Borough of The Bronx for the year 1912, entitled:

PRESIDENT, BOROUGH OF THE BRONX.			
<i>Personal Service.</i>			
General Administration.			
Administration—			
1858 Salaries, Regular Employees:			
President of the Borough.....	\$7,500 00		
Commissioner of Public Works.....	5,500 00		
Assistant Commissioner of Public Works.....	4,500 00		
Consulting Engineer.....	6,000 00		
Assistant Engineer.....	2,400 00		
Secretary	4,000 00		
General Bookkeeper.....	4,000 00		
Secretary to Commissioner of Public Works.....	3,000 00		
Clerk to President.....	2,700 00		
Clerk	2,700 00		
Clerk	2,400 00		
Clerk, 3 at \$2,100.....	6,300 00		
Clerk, 2 at \$1,800.....	3,600 00		
Clerk	1,650 00		
Clerk	1,500 00		
Clerk	1,200 00		
Clerk	1,050 00		
Clerk	600 00		
Stenographer and Typewriter, 3 at \$1,200.....	3,600 00		
Stenographer and Typewriter.....	900 00		
Stenographer to President.....	1,500 00		
Attendant	1,500 00		
Messenger	1,350 00		
Attendant	1,200 00		
Unassigned balance.....	1,650 00		\$72,300 00
	\$72,300 00		

The changes in the above modification from the present schedule consist of the following: The increase in compensation of one Clerk from \$1,650 to \$1,800, the increase of one Clerk from \$900 to \$1,050, and the change of title of one Typewriting Copyist to Stenographer and Typewriter, with no change in compensation.

Respectfully,
CYRUS C. MILLER, President, Borough of The Bronx.
City of New York, President of the Borough of The Bronx, 3d avenue and 177th street, Office of the President, June 21, 1912.

To the Honorable the Board of Estimate and Apportionment:
Gentlemen—Request is hereby respectfully made for the further modification of the schedule lines supporting the appropriation made to the office of the President of the Borough of The Bronx for the year 1912, other than that requested on May 24, which is now before your Honorable Board for approval, as follows, to date from June 1, 1912:

PRESIDENT, BOROUGH OF THE BRONX.			
1858 Salaries, General Administration—			
President of the Borough.....	\$7,500 00		
Commissioner of Public Works.....	5,500 00		
Assistant Commissioner of Public Works.....	4,000 00		
Consulting Engineer.....	7,200 00		
Assistant Engineer.....	3,300 00		
Secretary	4,000 00		
General Bookkeeper.....	4,000 00		
Secretary to Commissioner of Public Works.....	3,000 00		
Clerk to President.....	2,700 00		
Clerk	2,700 00		
Clerk	2,400 00		
Clerk, 3 at \$2,100.....	6,300 00		
Clerk, 2 at \$1,800.....	3,600 00		
Clerk	1,650 00		
Clerk	1,500 00		
Clerk	1,200 00		
Clerk	1,050 00		
Clerk	600 00		
Stenographer and Typewriter, 3 at \$1,200.....	3,600 00		
Stenographer and Typewriter.....	900 00		
Stenographer to President.....	1,500 00		
Attendant	1,500 00		
Messenger	1,350 00		
Attendant	1,200 00		
Unassigned balance.....	50 00		\$72,300 00
	\$72,300 00		

The proposed schedule changes in the above modification from the one requested on May 24 consist of the following, viz:

<i>Increases.</i>	
The salary of Consulting Engineer, from \$6,000 to \$7,200.....	\$1,200 00
\$7,200 was the rate of compensation intended to be paid since the 1st of January of this year, and although the Board of Estimate and Apportionment took favorable action on the proposition, it was not until the 30th of April that the Board of Aldermen approved the same.	
The salary of Assistant Engineer, from \$2,400 to \$3,300.....	900 00

Much additional duties in connection with the executive administration of this office will devolve on this incumbent by reason of the assumption of engineering requirements additional to the work he has previously performed. The sum of \$500 of the proposed increase is saved from the change in the salary of the Assistant Commissioner of Public Works, as below shown.

\$2,100 00

Decrease.

The salary of Assistant Commissioner of Public Works, from \$4,500 to \$4,000 500 00
 This position is now vacant through resignation of Mr. William H. Connell, and will be filled by appointment at the rate of \$4,000 instead of \$4,500.

Net increase..... \$1,600 00

These changes do not require any additional funds, there being an unassigned balance of \$50. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 24 and June 21, 1912, the President of the Borough of The Bronx requested modification of a salary schedule in his office for the year 1912. In connection therewith I report as follows:

It is proposed to increase a Consulting Engineer from \$6,000 to \$7,200 and an Assistant Engineer from \$2,400 to \$3,300. It is further proposed to provide for the position of Assistant Commissioner of Public Works at \$4,000, instead of \$4,500, the rate at which the position was left vacant by the resignation of William H. Connell. A Clerk is to be increased from \$1,650 to \$1,800, and one from \$900 to \$1,050.

The proposed changes may be made within the funds appropriated for 1912.

I recommend the approval of the request in accordance with the resolution transmitted herewith. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of The Bronx for the year 1912, to be effective as of June 1, 1912, as follows:

PRESIDENT, BOROUGH OF THE BRONX.

Personal Service.

General Administration—Administration—

1858 Salaries, Regular Employees:	
President of the Borough.....	\$7,500 00
Commissioner of Public Works.....	5,500 00
Assistant Commissioner of Public Works.....	4,000 00
Consulting Engineer.....	7,200 00
Assistant Engineer.....	3,300 00
Secretary.....	4,000 00
General Bookkeeper.....	4,000 00
Secretary to Commissioner of Public Works.....	3,000 00
Clerk to President.....	2,700 00
Clerk.....	2,700 00
Clerk.....	2,400 00
Clerk, 3 at \$2,100.....	6,300 00
Clerk, 2 at \$1,800.....	3,600 00
Clerk.....	1,650 00
Clerk.....	1,500 00
Clerk.....	1,200 00
Clerk.....	1,050 00
Clerk.....	600 00
Stenographer and Typewriter, 3 at \$1,200.....	3,600 00
Stenographer and Typewriter.....	900 00
Stenographer to President.....	1,500 00
Attendant.....	1,500 00
Messenger.....	1,350 00
Attendant.....	1,200 00
Unassigned balance.....	50 00
	\$72,300 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Comptroller recommending, the modification of salary schedule No. 2088 for said Borough President for the year 1912, to provide for an increase of \$180 per year to a Laborer now receiving \$720, and to increase the salary of an Inspector from \$1,200 to \$1,350:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, May 23, 1912.

Honorable Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—I would request modification of the salaries schedule of this office, No. 2088, so that this schedule will stand, when revised, as follows:

Highways, Maintenance.

2088 Salaries, Regular Employees, Tax Levy and Special and Trust Fund Force—

Assistant Engineer.....	\$2,250 00
Inspector, 5 at \$1,500.....	7,500 00
Foremen, 3 at \$1,200.....	3,600 00
Foremen, 28 at \$1,050.....	29,400 00
Foremen, 4 at \$900.....	3,600 00
Assistant Foreman.....	900 00
Laborer.....	900 00
Laborer, 4 at \$720.....	2,880 00
Driver.....	900 00
Leveler.....	1,500 00
Inspector.....	1,350 00
Clerk.....	1,200 00
Unassigned.....	150 00

Schedule total \$56,130 00

Tax levy, part allowance \$47,240 00
 Special and Trust Fund, part allowance..... 8,890 00

Total allowance \$56,130 00

The above proposed schedule differs from the present one in the following respects:

- One Foreman, \$1,050, has been eliminated.
- One Laborer, \$900, has been inserted.
- The sum of \$150 has been added as unassigned.
- One Inspector, \$1,200, payable from Special Fund, has been increased to \$1,350.
- The object of the modification is to provide for the increase in salary of a Laborer now employed at \$720, to \$900, for efficient services, acting as Storekeeper, etc. To provide for this increase, without increasing the amount of the appropriation, a Foreman at \$1,050, now vacant, is to be abolished, reducing the number of Foremen at \$1,050 from 29 to 28.

It is also proposed to increase the salary of an Inspector, Charles Sturm, from \$1,200 to \$1,350. This man is employed on restoration of pavements, and his salary is paid entirely from Special Fund (restoring and paving), and it is proposed to pay the new salary also from this fund.

No increase in the amount of the appropriation will be involved in this modification. Yours truly, GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 23, 1912, the President of the Borough of Richmond requested modification of a 1912 salary schedule in his office. In connection therewith I report as follows:

It is proposed to change the schedule for Highways, Maintenance, No. 2,088,

Salaries, Regular Employees, Tax Levy and Special and Trust Fund Force, so as to provide for an increase of \$180 per year to a Laborer now receiving \$720. It is further proposed to increase Charles Sturm, an Inspector, from \$1,200 to \$1,350. He is assigned wholly to work in connection with the Special Fund for Restoring and Repaving.

No additional budget allowance is necessary to provide for the changes.

I recommend the approval of the request by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Richmond, for the year 1912, as follows

PRESIDENT, BOROUGH OF RICHMOND.
Highways.

Maintenance—

2088 Salaries—Regular Employees—

Tax Levy and Special and Trust Fund Force—

Assistant Engineer.....	\$2,250 00
Inspector, 5 at \$1,500.....	7,500 00
Fireman, 3 at \$1,200.....	3,600 00
Foreman, 28 at \$1,050.....	29,400 00
Foreman, 4 at \$900.....	3,600 00
Assistant Foreman.....	900 00
Laborer.....	900 00
Laborer, 4 at \$720.....	2,880 00
Driver.....	900 00
Leveler.....	1,500 00
Inspector.....	1,350 00
Clerk.....	1,200 00
Unassigned balance.....	150 00

Schedule Total \$56,130 00

Tax Levy, Part allowance..... 47,240 00
 Special and Trust Fund Part Allowance..... 8,890 00

Schedule Total \$56,130 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following report of the Comptroller recommending the modification of salary schedule No. 1859 for the office of the President of the Borough of The Bronx for the year 1912, providing for the addition of 1 Searcher at \$1,500, 2 Inspectors at \$1,500 each, 1 Inspector at \$1,200, 1 Clerk at \$600, increasing 19 employees \$150 each and one \$300, and the elimination of 1 Computer at \$1,800 and 1 Axeman at \$1,050, the modification in so far as the additional force is concerned to be effective from May 1, 1912, and from June 1, 1912, for the salary increases:

(On June 20, 1912, action on the request for increasing 19 employees \$150 each and one \$300 was deferred one week. On June 27 the matter was laid over to July 11, and on said date until this meeting.)

(The communication of the President of the Borough of The Bronx relative to the above modification is printed in the financial minutes of the meeting held June 20, 1912, at pages 2778 to 2780 of the pamphlet minutes.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On May 20, 1912, the President of the Borough of The Bronx requested modification of the schedule for the budgetary part appropriation entitled, Engineering, including Topographical, No. 1859, Salaries, Regular Employees, Tax Levy, Corporate Stock and Special and Trust Fund Force. In connection therewith I report as follows:

It is proposed to add one Searcher, at \$1,500; two Inspectors, at \$1,500 each, one at \$1,200 per annum, and a Clerk, at \$600, representing an annual cost of \$6,300. It is also proposed to increase nineteen employees \$150 each and one \$300, at an increase in cost of \$2,850. This increased cost of \$2,850, due to salary increases is to be offset by dropping one Computer, at \$1,800, and one Axeman, at \$1,050. Upon request of the President, your Board, on May 23, approved an additional force of Axemen. The present request contemplates decreasing the number of Axemen and using the money allowed for such employment for salary increases.

\$540 of the \$6,300 increase due to new force is offset by the decrease of three Axemen from \$900 to \$720.

The grade of position of Searcher, at \$1,500, was established by the Board of Aldermen on April 2, 1912. The employment of the Searcher in the engineering service is desired in order that a systematic record plant of the Topographical Bureau may be compiled.

It is stated that the additional Inspectors are required on construction work where the costs are low, such as receiving basins, guard rails, etc. The Inspectors may be assigned to several works at the same time, thereby reducing the cost of inspection to the City and also to the property owner.

The incumbents and the proposed increases are as follows:

	From.	To.
<i>Assistant Engineers.</i>		
George L. Bennett.....	\$2,400 00	\$2,700 00
Benjamin W. Ronzone.....	2,100 00	2,250 00
Joseph F. Hefele.....	1,950 00	2,100 00
John F. Drake.....	1,950 00	2,100 00
William L. A. Arctander.....	1,650 00	1,800 00
Harry M. Adams.....	1,650 00	1,800 00
<i>Transitman.</i>		
Robert H. Feth.....	1,500 00	1,650 00
John C. Weiler.....	1,350 00	1,500 00
Hugh F. Glyn.....	1,350 00	1,500 00
Walter McGivney.....	1,350 00	1,500 00
<i>Transitman and Computer.</i>		
Simon Arkin.....	1,500 00	1,650 00
<i>Topographical Draftsman.</i>		
William H. Warren.....	1,500 00	1,650 00
Edward F. Maisenholder.....	1,500 00	1,650 00
James K. Burd, Jr.....	1,500 00	1,650 00
Walter A. Walsh.....	1,200 00	1,350 00
<i>Leveler.</i>		
John Schnapp.....	1,200 00	1,350 00
<i>Rodman.</i>		
Anthony Arent, Jr.....	900 00	1,050 00
James F. Joy.....	900 00	1,050 00
<i>Clerk.</i>		
Isidor I. Philip.....	600 00	750 00
<i>Stenographer and Typewriter.</i>		
Rose Jackson.....	1,050 00	1,200 00

The President states that the increases are for long and meritorious service, and have been requested after careful consideration from a force of two hundred and fifty employees.

The total cost of this schedule in the budget for 1912 was \$377,610. It was increased on February 21 to \$381,610. It was further increased on May 23 to \$386,650. It is now proposed to further increase it to \$392,410. The total increase of the schedule since the budget was made will therefore be \$14,800.

No additional tax levy money has been requested, the increase being charged to corporate stock and special and trust funds.

The line changes proposed are in detail as follows:

For the Salary Increases.

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1859	Assistant Engineer, 1 at \$2,700..	\$2,700 00		\$1,575 00	
	Assistant Engineer, 3 at \$2,400..		\$2,400 00		\$1,400 00
	Assistant Engineer, 4 at \$2,250..	2,250 00		1,312 50	
	Assistant Engineer, 7 at \$2,100..	2,100 00		1,225 00	
	Assistant Engineer, 11 at \$1,950..		3,900 00		2,275 00
	Assistant Engineer, 2 at \$1,800..	3,600 00		2,100 00	
	Assistant Engineer, 4 at \$1,650..		3,300 00		1,925 00
	Transitman, 3 at \$1,650..	1,650 00		962 50	
	Transitman, 9 at \$1,500..	3,000 00		1,750 00	
	Transitman, 3 at \$1,350..		4,050 00		2,362 50
	Transitman and Computer, 4 at \$1,650..	1,650 00		962 50	
	Transitman and Computer, 2 at \$1,500..		1,500 00		875 00
	Computer, 2 at \$1,800..		1,800 00		1,050 00
	Topographical Draftsman, 17 at \$1,650..	4,950 00		2,887 50	
	Topographical Draftsman, 21 at \$1,500..		4,500 00		2,625 00
	Topographical Draftsman, 1 at \$1,350..	1,350 00		787 50	
	Topographical Draftsman, 1 at \$1,200..		1,200 00		700 00
	Leveler, 1 at \$1,350..	1,350 00		787 50	
	Leveler, 1 at \$1,200..		1,200 00		700 00
	Axeman, 5 at \$1,050..		1,050 00		612 50
	Clerk, at \$750..	750 00		437 50	
	Clerk, 2 at \$600..		600 00		350 00
	Stenographer and Typewriter, 1 at \$1,200..	1,200 00		700 00	
	Stenographer and Typewriter, 1 at \$1,050..		1,050 00		612 50
		\$26,550 00	\$26,550 00	\$15,487 50	\$15,487 50

For the Additional Force.

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1859	Searcher, at \$1,500..	\$1,500 00		\$1,000 00	
	Inspector, at \$1,500..	3,000 00		2,000 00	
	Inspector, at \$1,200..	1,200 00		800 00	
	Clerk, 1 at \$600..	600 00		400 00	
	Axeman, 8 at \$900..		\$2,700 00		\$1,800 00
	Axeman, 10 at \$720..	2,160 00		1,440 00	
		\$8,460 00	\$2,700 00	\$5,640 00	\$1,800 00
	Less decrease		2,700 00		1,800 00
	Net increase	\$5,760 00		\$3,840 00	

The changes conform to the policy of your Board. I recommend the adoption of the attached resolution, which will provide for the additional force from May 1, 1912, and for the salary increases from June 1, 1912. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of The Bronx for the year 1912, to be effective as of June 1, 1912, with the exception of the lines:

Searcher	\$1,500 00
Inspectors, 2 at \$1,500..	3,000 00
Inspector	1,200 00
Axeman, 5 at \$900..	4,500 00
Axeman, 13 at \$720..	9,360 00

—which are to be effective as of May 1, 1912:

PRINCIPAL, BOROUGH OF THE BRONX.
Personal Service.

General Administration—Engineering (including Topographical)—

1859 Salaries, Regular Employees, Tax Levy, Corporate Stock and Special and Trust Fund Force:	
Chief Engineer	\$6,000 00
Principal Assistant Engineer, 4 at \$4,000..	16,000 00
Assistant Engineer	3,600 00
Assistant Engineer	3,300 00
Assistant Engineer, 6 at \$3,000..	18,000 00
Assistant Engineer, 2 at \$2,700..	5,400 00
Assistant Engineer, 6 at \$2,500..	15,000 00
Assistant Engineer, 2 at \$2,400..	4,800 00
Assistant Engineer, 5 at \$2,250..	11,250 00
Assistant Engineer, 8 at \$2,100..	16,800 00
Assistant Engineer, 9 at \$1,950..	17,550 00
Assistant Engineer, 4 at \$1,800..	7,200 00
Assistant Engineer, 2 at \$1,650..	3,300 00
Transitman, 3 at \$1,800..	5,400 00
Transitman, 4 at \$1,650..	6,600 00
Transitman, 11 at \$1,500..	16,500 00
Transitman and Computer, 5 at \$1,650..	8,250 00
Transitman and Computer	1,500 00
Computer	1,800 00
Computer	1,500 00
Mechanical Draftsman, 3 at \$1,800..	5,400 00
Mechanical Draftsman	1,650 00
Structural Steel Draftsman, 5 at \$1,800..	9,000 00
Topographical Draftsman, 2 at \$1,950..	3,900 00
Topographical Draftsman, 5 at \$1,800..	9,000 00
Topographical Draftsman, 20 at \$1,650..	33,000 00
Topographical Draftsman, 18 at \$1,500..	27,000 00
Topographical Draftsman, 2 at \$1,350..	2,700 00
Leveler, 8 at \$1,500..	12,000 00
Leveler, 2 at \$1,350..	2,700 00
Rodman, 13 at \$1,350..	17,550 00
Rodman, 14 at \$1,200..	16,800 00
Rodman, 6 at \$1,050..	6,300 00
Rodman, 3 at \$900..	2,700 00
Chainman and Rodman, 6 at \$1,350..	8,100 00
Chainman and Rodman, 6 at \$1,200..	7,200 00
Axeman, 4 at \$1,050..	4,200 00
Axeman, 5 at \$900..	4,500 00
Axeman	750 00
Axeman, 13 at \$720..	9,360 00
Clerks, 2 at \$2,250..	4,500 00
Clerk	1,650 00
Clerk	1,500 00
Clerk, 4 at \$1,350..	5,400 00
Clerk	1,200 00
Clerk	750 00
Clerk, 2 at \$600..	1,200 00
Clerk, 3 at \$300..	900 00
Stenographer and Typewriter, 2 at \$1,500..	3,000 00
Stenographer and Typewriter, 2 at \$1,200..	2,400 00

Typewriting Copyist, 2 at \$1,200..	2,400 00
Inspector of Sewer Connections, 3 at \$1,500..	4,500 00
Inspector of Cement Tests, 2 at \$1,350..	2,700 00
Attendant	1,050 00
Searcher	1,500 00
Inspectors, 2 at \$1,500..	3,000 00
Inspector	1,200 00

Schedule Total	\$392,410 00
Tax Levy Part Allowance	\$104,836 33
Corporate Stock and Special and Trust Fund Part Allowance	287,573 67
	392,410 00

Accrued Balance Replaced by Special Revenue
Bonds in Account No. 1860..... \$7,600 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Law Department requesting, and report of the Comptroller recommending, the modification of the 1912 salary schedule for said Department, to provide for two new positions of Law Clerk at \$1,200 and \$1,050 per annum, respectively, in place of two unfilled positions of Law Clerk at \$1,500 and Stenographer and Typewriter at \$750, to take effect as of July 1, 1912:

City of New York, Law Department, Office of the Corporation Counsel, New York, June 1, 1912.
The Board of Estimate and Apportionment of The City of New York:
Sirs—There are at present two unfilled positions in this Department, as follows:
Law Clerk

Law Clerk	\$1,500 00
Stenographer and Typewriter	750 00
I request that the Budget salary schedule be amended by striking out the two above-named positions and by substituting in place thereof the following: One Law Clerk	\$1,200 00
One Law Clerk	1,050 00

One of the new Law Clerks will take charge of the work of indexing the opinions of the Corporation Counsel and the opinions of the Courts in City cases. The other new Law Clerk will assist in the examinations of titles and in other work assigned to the Division of Real Estate in the main office. Yours respectfully,
ARCHIBALD R. WATSON, Corporation Counsel.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On June 1, 1912, the Corporation Counsel requested modification of the 1912 salary schedule for his office, to provide for two new positions by striking out two unfilled positions as follows:

Law Clerk	\$1,500 00
Stenographer and Typewriter	750 00
He requests that in place of the above named positions the following be substituted: Law Clerk	1,050 00
Law Clerk	\$1,200 00

The Corporation Counsel states that one of the proposed new Law Clerks is to index the opinions of the Corporation Counsel and the opinions of the Courts in City cases; the other to assist in the examination of titles to real property. No increase in appropriation will be required to provide for the new positions. No increase in compensation is involved.

In view of the foregoing I recommend the adoption of the attached resolution granting the request.
Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Law Department for the year 1912, to be effective as of July 1, 1912, as follows:

Law Department.

88 Salaries—	
Corporation Counsel	\$15,000 00
Assistants, 3 at \$10,000..	30,000 00
Assistants, 8 at \$7,500..	60,000 00
Assistants, 4 at \$6,500..	26,000 00
Assistants, 4 at \$6,000..	24,000 00
Assistants, 3 at \$5,500..	16,500 00
Assistants, 8 at \$5,000..	40,000 00
Assistants, 7 at \$4,500..	31,500 00
Assistants, 6 at \$4,000..	24,000 00
Assistants, 8 at \$3,500..	28,000 00
Assistants, 14 at \$3,000..	42,000 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	1,800 00
Law Clerks, 2 at \$1,500..	3,000 00
Law Clerk	1,350 00
Law Clerks, 3 at \$1,200..	3,600 00
Law Clerks, 4 at \$1,050..	4,200 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, 2 at \$1,500..	3,000 00
Clerks, 5 at \$1,200..	6,000 00
Clerks, 5 at \$1,050..	5,250 00
Clerks, 5 at \$900..	4,500 00
Clerks, 6 at \$750..	4,500 00
Clerks or Junior Clerks, 17 at \$600..	10,200 00
Clerks or Junior Clerks, 22 at \$480..	10,560 00
Clerks or Office Boys, 14 at \$300..	4,200 00
Stenographers and Typewriters, 2 at \$1,500..	3,000 00
Stenographers and Typewriters, 20 at \$1,200..	24,000 00
Stenographers and Typewriters, 18 at \$1,050..	18,900 00
Stenographers and Typewriters, 17 at \$900..	15,300 00
Stenographers and Typewriters, 9 at \$750..	6,750 00
Typewriting Copyists, 4 at \$1,200..	4,800 00
Typewriting Copyist	1,050 00
Typewriting Copyist	900 00
Typewriting Copyists, 2 at \$750..	1,500 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
Messengers, 2 at \$1,200.....	2,400 00
Messenger	1,050 00
Process Servers, 7 at \$1,200.....	8,400 00
Process Servers, 5 at \$1,050.....	5,250 00
	\$618,410 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Taxes and Assessments requesting, and report of the Comptroller recommending, the modification of salary schedule 1363 of said Department, to permit of increasing the compensation of 41 employees to the extent of \$6,840 and the addition of 1 Clerk at \$750:

Department of Taxes and Assessments of The City of New York, Borough of Manhattan, Hall of Records, June 7, 1912.

To the Honorable Board of Estimate and Apportionment of The City of New York:
 Gentlemen—By direction of the Board of Taxes and Assessments, request is hereby made that the Board of Estimate and Apportionment will make such amendments to the lines in the supporting schedules or in the schedules supporting the appropriations for the Department of Taxes and Assessments for the year 1912, relating to salaries, as is shown by the accompanying schedule, this request being made in order to carry out and comply with the resolution of the Board making certain changes in the salaries of the employees of this Department. Respectfully,
 LAWSON PURDY, President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On June 7, 1912, the Commissioners of the Department of Taxes and Assessments requested a modification of a salary schedule supporting the budget appropriation for the Department for 1912. In connection therewith I report as follows:

The Commissioners state that it is proposed to increase the compensation of forty-one employees to the extent of \$6,840, and add one Clerk, at \$750. It is further stated that the increases proposed are in accordance with the policy of the Commissioners, whereby salary increases of \$150 are recommended every other year to employees serving faithfully during the period.

The increases are to be made within the budget appropriation for the year. I recommend therefore that the request be approved by the adoption of the attached resolution. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Taxes and Assessment for the year 1912, as follows:

DEPARTMENT OF TAXES AND ASSESSMENT.
 Personal Service.

Administration—	
1363 Salaries, Regular Employees:	
President	\$8,000 00
Commissioners, 6 at \$7,000.....	42,000 00
Secretary	4,500 00
Assistant Secretary.....	3,200 00
Assistant Tax Commissioner.....	5,000 00
Assistant Tax Commissioner, 6 at \$2,500.....	15,000 00
Deputy Tax Commissioner.....	4,500 00
Deputy Tax Commissioner, 8 at \$4,000.....	32,000 00
Deputy Tax Commissioner, 6 at \$3,500.....	21,000 00
Deputy Tax Commissioner, 14 at \$3,250.....	45,500 00
Deputy Tax Commissioner, 5 at \$3,000.....	15,000 00
Deputy Tax Commissioner.....	2,850 00
Deputy Tax Commissioner, 16 at \$2,700.....	43,200 00
Deputy Tax Commissioner, 13 at \$2,550.....	33,150 00
Deputy Tax Commissioner, 34 at \$2,400.....	81,600 00
Deputy Tax Commissioner.....	1,650 00
Surveyor	7,000 00
Chief Deputy of Real Estate.....	7,000 00
Chief Deputy of Personal Estate.....	4,000 00
Chief Clerk.....	3,000 00
Chief Clerk, 3 at \$2,550.....	7,650 00
Clerk, 6 at \$1,800.....	10,800 00
Clerk, 7 at \$1,650.....	11,550 00
Clerk, 23 at \$1,500.....	34,500 00
Clerk, 20 at \$1,350.....	27,000 00
Clerk, 15 at \$1,200.....	18,000 00
Clerk, 25 at \$1,050.....	26,250 00
Clerk, 11 at \$900.....	9,900 00
Clerk, 25 at \$750.....	18,750 00
Clerk, 2 at \$600.....	1,200 00
Clerk, 3 at \$540.....	1,620 00
Searcher, 4 at \$1,500.....	6,000 00
Searcher	1,350 00
Searcher, 3 at \$1,200.....	3,600 00
Stenographer and Typewriter, 2 at \$1,650.....	3,300 00
Stenographer and Typewriter, 2 at \$1,500.....	3,000 00
Stenographer and Typewriter.....	1,350 00
Stenographer and Typewriter.....	1,200 00
Confidential Stenographer.....	1,200 00
Messenger	1,800 00
Messenger, 4 at \$1,350.....	5,400 00
Book-typewriter, 5 at \$1,050.....	5,250 00
Balance unassigned.....	1,170 00
	\$580,990 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Correction requesting the modification of salary schedules Nos. 239 and 247 for said Department, involving a transfer of \$250 to permit of increasing the salary of the Warden of the District Prison, from \$2,500 to \$3,000 per annum, to take effect as of July 1, 1912:

Department of Correction of The City of New York, Commissioner's Office, 148 East 20th street, New York, May 13, 1912.
 JOSEPH HAAG, Esq., Secretary Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—I would respectfully request the Honorable the Board of Estimate and Apportionment for a revision to be made in the following schedules, making them read as follows:

City Prison—Brooklyn.

247 Salaries, Regular Employees:	
Warden	\$2,500 00
Head Keeper.....	1,800 00
Bookkeeper	1,500 00
Physician	1,200 00
Clerk	1,000 00
Matron	1,000 00
Matron, 2 at \$900.....	1,800 00
Matron	600 00
Unassigned	400 00
	\$11,800 00

District Prisons.	
239 Salaries, Regular Employees:	
Warden	\$3,000 00
Physician	1,500 00
Matron, 4 at \$900.....	3,600 00
Matron, 2 at \$600.....	1,200 00
Unassigned	300 00
	\$9,600 00

Inasmuch as no additional appropriation will be required, I trust that your Honorable Board will grant this request. To take effect as of June 1.
 Very respectfully,
 PATRICK A. WHITNEY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
 Gentlemen—On May 13, 1912, the Commissioner of Correction requested modification of two schedules for his Department for the year 1912, involving a transfer of \$500. In connection therewith I report as follows:

The modification is in No. 239, Personal Service, Administration, District Prisons, Salaries, Regular Employees, and No. 247, Personal Service, Administration, City Prison, Brooklyn, Salaries, Regular Employees.

It is proposed to increase the salary of Peter A. Mallon, Warden of the District Prisons, from \$2,500 to \$3,000 per annum, the \$500 necessary to be provided by reducing the rate for the vacant position of Warden of the City Prison from \$3,000 to \$2,500 per annum.

The Commissioner stated that Mr. Mallon's duties have been greatly increased by the opening of the night courts, and that he is the only Warden in the Department who does not receive maintenance.

The salaries of the Wardens connected with this Department range from \$2,500 to \$3,500 per annum. It is proposed to fill the vacancy at the City Prison, Brooklyn, at the minimum rate.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
239	Warden, at \$2,500.....		\$2,500 00		\$1,250 00
	Warden, at \$3,000.....	\$3,000 00		\$1,500 00	
247	Warden, at \$3,000.....		3,000 00		1,500 00
	Warden, at \$2,500.....	2,500 00		1,250 00	
		\$5,500 00	\$5,500 00	\$2,750 00	\$2,750 00

I recommend the adoption of the attached resolution approving the request. Respectfully,
 WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Correction for the year 1912, as follows:

FROM	
247 Salaries, Regular Employees.....	\$250 00

TO

239 Salaries, Regular Employees.....	\$250 00
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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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised, for the Department of Correction for the year 1912, to take effect as of July 1, 1912, as follows:

DEPARTMENT OF CORRECTION.
 Personal Service, Administration, District Prisons.

	Paid from		Total.
	Tax Levy Appropriation.	Paid from Special Revenue Bond Funds.	
239 Salaries, Regular Employees:			
Warden	\$3,000 00		\$3,000 00
Physician	1,500 00		1,500 00
Matron, 5 at \$900.....	4,080 00	\$420 00	4,500 00
Matron, 2 at \$600.....	1,200 00		1,200 00
Unassigned balance	300 00		300 00
Schedule total			\$10,500 00
Tax Levy Allowance			\$10,080 00
Rate of Special Revenue Bond Allowance.....			420 00
Total Allowance			\$10,500 00

Personal Service, Administration, City Prison, Brooklyn.

247 Salaries, Regular Employees:	
Warden	\$2,500 00
Head Keeper	1,800 00
Bookkeeper	1,500 00
Physician	1,200 00
Clerk	1,000 00
Matron	1,000 00
Matron, 2 at \$900.....	1,800 00
Matron	600 00
Unassigned balance	400 00
	\$11,800 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following matters, not upon the Calendar for this day, were considered by unanimous consent:

The following was offered:
 Whereas, On June 27, 1912, there was referred to a committee of five, consisting of the Mayor, the Comptroller and the Presidents of the Boroughs of Manhattan, The Bronx and Richmond, the proposed contract and specifications for the construction of a filtration plant at Jerome Park, Borough of The Bronx; and
 Whereas, Said committee was authorized and empowered to investigate and report upon the form of contract and specifications for the construction of a proper filtration plant; and
 Whereas, The said committee had not had sufficient opportunity to investigate and report in this matter before the adjournment of the Board of Estimate and Apportionment; and
 Whereas, The Board of Estimate and Apportionment will adjourn its meetings for the vacation period; and
 Whereas, It is the desire of the Commissioner of the Department of Water Supply, Gas and Electricity to advertise for this work so as to make possible the commencement of operations for construction before the approach of the fall of 1912;

Resolved, That the Board of Estimate and Apportionment hereby empowers the said committee to adopt and approve the contract and specifications as submitted,

or modified, if deemed advisable, and that their report shall have the same force and effect as if the matter had been submitted to and adopted at a meeting of all the members of 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The President of the Board of Aldermen presented the following report of Committee on School Inquiry relative to the findings of W. A. Averill as to the handling of correspondence in the office of the City Superintendent and Associate Superintendents and as to the relations of the Superintendents to each other (Department of Education) and submitting resolution that a copy of said report be submitted to the Board of Education with a request that a committee of that Board be appointed to confer with the Committee on School Inquiry, etc.:

New York, July 8, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—During the progress of its investigation, the Committee on School Inquiry discovered that it had been the custom of the Board of Education to call upon and to rely upon the City Superintendent and Board of Superintendents for advice and reports upon practically all pending questions relative to administrative and business policies, such as the purchase of sites, the installation or removal of lights in halls and rooms of school buildings, repair of present equipment, removal of furniture, fireproofing of school buildings and the abandonment of old buildings. It became necessary therefore to supplement the study of the educational work of the Board of Superintendents which had been carried on by Professor Edward E. Elliott of the University of Wisconsin, by a study of the business and office methods of the City Superintendent and Associate Superintendents.

The Committee held hearings and discussed in conference with the City Superintendent and with members of the Board of Superintendents matters pertaining to the office organization and clerical forces of their respective offices. These hearings and conferences were supplemented by a careful investigation of the office organization and office files, made by Mr. W. A. Averill. Mr. Averill's services were contributed by the Bureau of Municipal Research, and he has since been employed by the Board of Education of Rochester, New York, to install a system of office, educational and accounting records. Mr. Averill's summary of his findings and recommendations is appended to this report.

Your Committee recommends as follows:

First—That the Board of Education detail an office organizer to centralize the files in the offices of the City Superintendent and Associate Superintendents and to reorganize the clerical work in such way that the higher supervisory officials may be relieved of clerical work which now prevents their giving their undivided attention to educational problems. The filing and recording systems established in the office of the President of the Borough of The Bronx and of the Public Service Commission for the First District might well be regarded as models to be followed as far as conditions warrant.

Second—That the Board of Education consider the advisability of assigning higher supervisory officials to do some specialized work throughout the entire City, as recommended by the City Superintendent in his twelfth annual report, instead of devoting themselves to general work within a limited area.

Third—That a Bureau of Information be established in the Department of Education, equipped with proper blank forms to be filled in by Clerks in answer to questions which have proved to be recurrent, thus lessening the need for a great deal of stenographic work.

Fourth—That the Board of Education consider the advisability of referring important questions to joint Committees of the Board of Education and of the higher educational officials of the Board, so that the higher educational officials may have the advantage of the advice of business men who are members of the Board of Education and the business men who are members of the Board may in turn have the advantage of the advice of the higher educational officials in the consideration of important matters pertaining to the schools. Such a plan has been followed in Boston with great success and has prevented many delays due to friction between committees of each class sitting separately. Respectfully submitted,

JOHN PURROY MITCHEL, President of the Board of Aldermen; WM. A. PRENDERGAST, Comptroller; President of the Borough of The Bronx; Select Committee on School Inquiry.

March 4, 1912.

Hon. JOHN PURROY MITCHEL, Hon. WILLIAM A. PRENDERGAST, Hon. CYRUS C. MILLER, Committee on School Inquiry, Board of Estimate and Apportionment:

Gentlemen—I beg to submit the following summary of my report on the office organization and filing methods of the City Superintendent and Associate Superintendents.

FINDINGS AS TO THE HANDLING OF CORRESPONDENCE IN THE OFFICE OF THE CITY SUPERINTENDENT AND ASSOCIATE SUPERINTENDENTS, AND AS TO THE RELATIONS OF SUPERINTENDENTS TO EACH OTHER, TO SUBORDINATES AND TO THE PUBLIC, INDICATED BY CORRESPONDENCE ANALYZED.

1. Clerical routine work consumes altogether too much time of the City Superintendent, Associate Superintendents and other directing officers, to the necessary neglect of supervisory educational work.

2. The lack of a central information office entails a waste of clerical assistance and leads to the acquisition and giving out of information of questionable reliability and to the making of defective records.

3. Since there are no printed blank forms, a great amount of time is sacrificed in dictating and typewriting recurrent matters, thus both increasing the cost of such work and diverting attention from educational supervision. Nearly 52 per cent. of all letters examined might have been attended to by subordinates.

4. The permission of the City Superintendent is required in altogether too many minor matters, before action by supervisory officers.

5. Of the first 316 letters found in the files examined, which were sent out by the City Superintendent from 1908 to 1911, only 29 represented matters in which the City Superintendent initiated the correspondence; the rest were answers.

6. There is a lack of care, system and uniformity in filing letters, recent letters being found in files for obsolete material, letters belonging in one room being in another, etc.

7. Lack of confidence by chiefs in subordinates is apparently indicated by minor matters being attended to by the higher supervisory officials.

8. Actual authority is not delegated to those whose judgment would warrant it; i. e., principals may not grant teachers permission to visit other schools, etc.

9. Even where authority is delegated to individuals, it is not used.

10. A division of labor is lacking in the offices of Associate Superintendents, for each office appears to be writing letters on any subject whatever as inquiries come to it.

11. Associate Superintendents and Directors have been assigned to geographical divisions instead of to administrative and executive functions belonging to the entire City, with the result that energy and co-ordination are hampered.

12. Only 82 out of 500 recommendations during three and one-half years are from Associate City Superintendents.

13. Only 23 out of 500 recommendations are from 23 District Superintendents.

14. Only 30 out of 500 recommendations are from nearly 600 Principals of schools.

15. Less than one suggestion for the betterment of the school system was found in the records per seven Supervisors in three and one-half years; i. e., the records show that only 102 recommendations were made by 749 Principals, Supervisors, Directors and board members.

16. Of the recommendations which touched such vital questions as part time, discipline, attendance and retardation, only one per cent. emanated from 749 Supervisors.

17. Negotiations, particularly those of the Board of Superintendents, consume an unnecessarily long time, partly because of the number of hands through which negotiations are passed before being completed.

18. Responsibility is shifted from the Board of Superintendents to committees, from superior to subordinate and vice versa.

19. An Associate City Superintendent wrote to the City Superintendent March 28, 1911, protesting against the submission of register and attendance by grades instead of by schools in preparing estimates for teachers needed because "if any attempt was made to answer the points in the circular we should find ourselves in hot

water. If we do this our Budget will be riddled easily by the experts who will attack it."

20. The proposal of the Russell Sage Foundation to publish its report on retardation was protested against and the investigator asked to modify his report (which has never been issued).

21. In only negligible instances was initiative displayed by the Department in co-operating with public and private agencies.

22. Attempts at co-operation on the part of public and private agencies are seldom encouraged and frequently ignored or discouraged.

23. Of 500 recommendations, of which, without previous knowledge of action, 75 were examined in detail because they seemed to be the most important, 14 were acted on favorably, 26 showed no record of any attention paid to them, 7 were merely acknowledged, 15 were marked "for no consideration," 5 were replied to in an indefinite way, 8 were acted on unfavorably.

24. Local school boards have apparently been tolerated, ignored or regarded as a relic of a system now fallen into disuse.

25. Thousands of dollars have been lost each year because the problem of Teachers' absences had not been faced squarely in spite of protracted correspondence showing that facts were no longer in dispute. (Between the making and submission of this report the Board of Education decided to deduct, on account of absence, 1-200 of a year's salary instead of 1-350.)

26. Pleas for the reversal of adverse decisions are entertained with a freedom which undermines the proper control of the teaching force.

27. The approval of service of Teachers is based on a system admitted to be faulty.

28. Some Principals display carelessness and ignorance in submitting reports.

The following resolution was offered:

Resolved, That a copy of the report of the Committee on School Inquiry of the Board of Estimate and Apportionment, dated July 8, 1912, be transmitted to the Board of Education with the request that a Committee of that Board be appointed to confer with said Committee on School Inquiry, concerning the matters referred to in said report, before the Board of Education presents its Budget estimates for the year 1913.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the Fire Department requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted July 17, 1911, authorizing \$50,000 corporate stock for the erection of a new fire-proof building on part of a site located in the vicinity of St. Anns avenue, Rose street and Germain place, The Bronx, for the use of the Fire Department for a fire alarm telegraph central office, be amended by describing the site as follows: "In Crotona Park, on the northerly side of East 175th street:

Fire Department of The City of New York, Office of the Commissioner, June 12, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman of Board of Estimate and Apportionment:

Sir—Request is hereby made to amend the 1912 corporate stock budget for the Fire Department by adding thereto \$50,000, to provide for the erection of a new fire-proof building, to be used as a fire alarm telegraph station, on a site in Crotona Park, on the northerly side of East 175th street, between Fulton and Arthur avenues, permission, as provided in section 615 of the Charter, having been granted by the Commissioner of Parks of the Borough of The Bronx to use such site for said purpose.

An appropriation of \$50,000 has been made to provide means for the erection of a building for a fire alarm telegraph station on a site in the vicinity of St. Anns avenue, Rose street and Germain place, Borough of The Bronx. This site, however, was not desirable for the requirements.

For the purpose of overcoming delay, in the event of possible litigation which might ensue if said authorization of corporate stock was used for the erection of a building at any other place than that provided in the resolution now in force, this amendment is earnestly requested. Respectfully,

GEO. W. OLVANY, Deputy and Acting Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1912, the Fire Commissioner requested \$50,000 in corporate stock for the erection of a fireproof building, to be used as a fire alarm telegraph station, in Crotona Park, on the northerly side of East 175th street, between Fulton and Arthur avenues. In connection therewith we report as follows:

On July 17, 1911, the Board of Estimate and Apportionment, and on July 25, 1911, the Board of Aldermen authorized \$50,000 in corporate stock to provide means for the erection of a building on a site in the vicinity of St. Anns avenue, Rose street and Germain place. The Fire Commissioner now states that he finds this site undesirable for the purposes. Permission for the erection of this building in Crotona Park has been obtained from the Commissioner of Parks, Borough of The Bronx, as provided by section 615 of the Greater New York Charter. We recommend the adoption of the attached resolution granting the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment July 17, 1911, and approved by the Board of Aldermen July 25, 1911, which reads as follows:

"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 fifty thousand dollars (\$50,000), to provide means for the erection of a new fireproof building on part of a site located in the vicinity of St. Anns avenue, Rose street and Germain place for the use of the Fire Department of The City of New York, for a fire alarm telegraph central office, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

—be amended by describing the site as follows: "In Crotona Park on the northerly side of East 175th street, between Fulton and Arthur avenues."

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the Bronx Parkway Commission in the matter of, and report of the Comptroller and President of The Bronx and the Comptroller and the President of the Borough of Manhattan, members of the Corporate Stock Budget Committee relative to, the acquisition of lands described in chapter 594 of the Laws of 1907, exclusive of the "reduced areas" shown in hatched green on map entitled "Map of Bronx River Parkway Commission, authorized by chapter 594 of the Laws of 1907, Bronx River Parkway Commission, as prepared and approved by said Commission April 15, 1912":

(On May 2, 1912, the communication of the Bronx Parkway Commission above mentioned was referred to the Comptroller, the President of the Borough of The Bronx and the Corporate Stock Budget Committee).

April 24, 1912.

To the Honorable Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—On June 22, 1911, your Honorable Board unanimously adopted resolutions of which the following is a copy:

"Resolved, That, pursuant to the provisions of chapter 594 of the Laws of 1907, 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 twenty-six thousand two hundred and fifty dollars (\$26,250), being the City's share of a total

of \$35,000 to provide means for the expenses of the Bronx Parkway Commission in the preparation of maps and making researches of the ownership of the property which it proposes to acquire for preserving the waters of the Bronx River from pollution; and creating a reservation of land on either side of the river from Bronx Park, Borough of The Bronx, to Kensico Reservoir, Westchester County, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid; and be it further

"Resolved, That the Bronx Parkway Commission is hereby advised and directed not to incur any other expenses nor enter into any obligation other than the preparation of the maps and making the researches of the ownership of the property which it proposes to acquire, until the maps, estimates of cost of the property to be acquired and the preliminary estimate of the cost of the physical improvement, are approved by the Board of Estimate and Apportionment, in accordance with the provisions of section 19, chapter 594 of the Laws of 1907."

The report and estimates of cost and the maps called for in these resolutions have been prepared at an expense considerably less than the amount appropriated, and are now ready for the consideration of your Board. The Bronx Parkway Commission, therefore, respectfully requests your Honorable Board to set a date upon which the Commission may present its estimates, together with maps and plans, and explain the same.

At this hearing the Commission will request the formal approval by your Honorable Board of the acquisition of the lands described in chapter 594 of the Laws of 1907 for the purposes of said act. Respectfully,
MADISON GRANT, President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller; Hon. JOHN PURROY MITCHELL, President, Board of Aldermen; Hon. GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee of the Board of Estimate and Apportionment:

Gentlemen—At a meeting of the Board of Estimate and Apportionment held May 2, 1912, a communication from the President of the Bronx Parkway Commission, dated April 24, 1912, advising the Board that the maps, estimates of cost and reports have been prepared in accordance with the resolution of June 22, 1911, was referred to a Committee consisting of the Comptroller and President of the Borough of The Bronx for report to the Corporate Stock Budget Committee.

On May 28, 1912, the President of the Commission transmitted a report showing the land described in chapter 594 of the Laws of 1907, proposed to be acquired for a parkway, and showing in "hatched green" the "reduced areas" which the Commission deems is not absolutely necessary to acquire for the carrying out of the purposes of said Act.

Your Committee has examined the contents of the report and the maps accompanying the same, and begs to report as follows:

On January 21, 1910, a request of the Bronx Parkway Commission for an appropriation of \$26,250 for the preparation of maps and making researches of the ownership of property to be acquired, was referred to a committee consisting of the Comptroller and the President of the Borough of The Bronx for consideration and report on the general proposition.

At the meeting of the Board held June 22, 1911, this Committee presented its report wherein were discussed at length the statutes authorizing the project, its history, the urgent need of remedying existing conditions, possible remedies and other improvements dependent upon the treatment of the Bronx River. The suggested remedy that a parkway be created met general approval, and, in consequence, an issue of \$26,250 corporate stock was authorized. Your Committee does not feel that it is necessary to repeat in detail its former report, but desires to call attention only to the salient points of the project.

The severe winter through which we have just passed, with its attendant heavy rainfalls, has emphasized the necessity of an immediate and complete remedy of existing conditions. For the same reason, certain other improvements dependent upon the treatment of this river within the City will not permit of further delay. The beautiful drives which this plan would provide and the connection they would afford with the system of State roads throughout the County is certainly a factor worthy of most careful consideration. The reclamation of a strip of land of this magnitude within the very heart of the most beautiful and picturesque County of the State is of importance to the whole people.

The Commission now advises that all the terms and conditions of the resolution of June 22, 1911, have been fulfilled, and, in view thereof, requests the formal approval by the Board of Estimate and Apportionment of the acquisition of the lands described in chapter 594 of the Laws of 1907 for the purposes of said Act.

The Act of reference is entitled, "An Act to provide for preserving the waters of the Bronx River from pollution; creating a reservation of the lands on either side of the river; authorizing the taking of lands for that purpose and providing for the payment thereof, and appointing a commission to carry out the purposes of the Act."

Briefly, the proposed reservation as outlined in the Act comprises approximately 1,260 acres, in the form of a strip of land varying in width from 300 to 1,000 feet, about 15 miles in length, lying and extending along the banks of the Bronx River, from Bronx Park to Kensico Reservoir.

The Commission reports that the proposed reservation, 1,260 acres, can be reduced to 1,130 acres by the omission of 130 acres of land, desirable for parkway purposes but not absolutely necessary for the protection of the river. Of this reduced area of 1,130 acres, 472 acres consists of roads, streets, Bronx Valley, sewer, water supply lands, Kensico pipe line and river lands donated free by the owners to the Commission, and 148 acres under option at low figures. The remaining 510 acres is to be acquired by purchase or condemnation, divided as follows:

Within The City of New York.....	70 acres
Within the County of Westchester.....	440 acres
	510 acres

The Commission estimates the cost of acquiring the lands absolutely necessary for the protection of the river, including a substantial sum for the protection of existing parkway features, planting and replanting of the denuded districts, straightening of the river for flood regulating and sanitary measures against pollution will be about \$4,000,000, computed as follows:

<i>Within The City of New York.</i>	
Land under option.....	\$170,000 00
70 acres to be purchased or condemned.....	732,000 00
	\$902,000 00
<i>Within the County of Westchester.</i>	
Land under option.....	\$444,000 00
440 acres to be purchased or condemned.....	2,354,000 00
	2,798,000 00
Total estimated value of land to be acquired.....	\$3,700 00 00
Physical improvements.....	200,000 00
Margin of safety.....	100,000 00
Total	\$4,000,000 00

It was clearly the intent of the resolution adopted by the Board of Estimate and Apportionment on June 22, 1911, approving an authorization of \$26,250 for the City's share of the total of \$35,000, to provide means for the expenses of the Bronx Parkway Commission in the preparation of maps and making researches of the ownership of the property which it proposed to acquire for preserving the waters of the Bronx River from pollution and creating a reservation of land on either side of the river; that after said data was furnished the Board of Estimate and Apportionment could more intelligently act in the matter.

As shown by the report and map submitted by the Bronx Parkway Commission, considerable study and thought have been given to the question as to what lands are necessary for the protection of the river, which is the fundamental reason for the entire project, your Committee stating in its report of June 22, 1911, that a parkway is the best and most economical solution of the present unsanitary condition of the Bronx River, between Bronx Park, Borough of The Bronx, and Kensico Reservoir.

In the report of the Commission, certain areas designated on the map as "reduced areas," comprising 130 acres and representing nearly one-fourth of the total assessed valuation of the original land to be taken, are stated to be not absolutely necessary for the protection of the river; also, inasmuch as these areas are not included in the esti-

mated cost of \$4,000,000, it is evident that their acquisition is not contemplated by the Commission, the Board having been furnished with the data it requested by its resolution of June 22, 1911, and being advised by the Commission that certain areas are not necessary for the project, in which your Committee concurs, we therefore recommend that the Board of Estimate and Apportionment approve of the acquisition of land described in chapter 594 of the Laws of 1907, exclusive of the "reduced areas" shown in hatched green on a map entitled, "Map of the Bronx River Parkway Reservation, authorized by chapter 594 of the Laws of 1907, Bronx Parkway Commission," as prepared and approved by the Bronx Parkway Commission on April 15, 1912, and transmitted to the Board of Estimate and Apportionment April 24, 1912, with the report of said Commission.

The Commission directs the attention of the Board to the urgent need of immediate action so that the Commission may be in a position to immediately accept the proposed donations of lands and to avail itself of the options as fast as the Board may see fit to supply the money. The Commission, in its report, expresses its intention to present, from time to time, its recommendations as to the availability of options and to proceed with the acquisition of the land only so fast as the finances of the City will permit.

You will also note that the cost of the improvement is to be borne jointly by The City of New York and the County of Westchester; the City paying three-fourths, or approximately \$3,000,000, and the County of Westchester one-fourth, or \$1,000,000.

Herewith is submitted a resolution, which if adopted by the Board of Estimate and Apportionment will carry out the foregoing recommendation. Respectfully,

WM. A. PRENDERGAST, Comptroller; THOMAS W. WHITTLE, Acting President, Borough of The Bronx.

We hereby approve and forward the above report and recommend the adoption by the Board of Estimate and Apportionment of the hereto attached resolution.

WM. A. PRENDERGAST, Comptroller; President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to chapter 594 of the Laws of 1907, hereby approves of the acquisition of the lands described in said Act, exclusive of the "reduced areas," shown in hatched green on a map entitled, "Map of Bronx River Parkway Reservation, authorized by chapter 594 of the Laws of 1907, Bronx Parkway Commission," as prepared and approved by the Bronx Parkway Commission on April 15, 1912, and submitted to the Board of Estimate and Apportionment on April 24, 1912, with the report of the said Commission.

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the President of the Borough of Richmond—12.

Negative—The President of the Board of Aldermen and the President of the Borough of Queens—4.

The Comptroller presented the following report of the Corporate Stock Budget Committee recommending the issue of \$26,000 corporate stock to provide for the acquisition of a site, at private sale, of the block bounded by Skillman place, Jackson avenue, Queensboro Bridge plaza and Hunter avenue, Long Island City, Queens, as part of the approach to the Queensboro Bridge:

The City of New York, Department of Finance, Comptroller's Office, July 15, 1912.
To the Honorable the Board of Estimate and Apportionment:

Gentlemen—Under date of July 12, 1912, the Comptroller made a report to your Board recommending the acquisition, at private sale, of the property bounded by Queensboro Bridge Plaza, Jackson avenue, Skillman place and Hunter avenue, Long Island City, Borough of Queens, and further recommending that the same be acquired at a price not exceeding \$26,000. This property will be acquired for the Department of Bridges, and it appears that there is no fund in the said Department out of which payment could be made for the same, or has any action ever been taken by the Corporate Stock Budget Committee recommending an appropriation to pay for this property.

We therefore respectfully recommend, at the time the resolution is adopted authorizing the acquisition of these premises at private sale, that a resolution be adopted authorizing the issue of corporate stock in the sum of \$26,000, to pay for the same, and that the said resolution be submitted to the Board of Aldermen in accordance with the provisions of the Charter. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Borough of Manhattan; JOHN PURROY MITCHELL, President, Board of Aldermen; Committee.

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 twenty-six thousand dollars (\$26,000), to provide means for the acquisition of property bounded by Skillman place, Jackson avenue, Queensboro Bridge plaza and Hunter avenue, Long Island City, Borough of Queens, required for the approach to the Queensboro Bridge, under the jurisdiction of the Commissioner of Bridges, and that 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, the proceeds thereof, to the amount of the par value of the stock, 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the City Clerk requesting transfer of \$150 within the appropriation made to the Board of Aldermen and City Clerk for the year 1912:

The City of New York, Office of the City Clerk, Borough of Manhattan, New York, July 15, 1912.

To the Honorable the Board Estimate and Apportionment:

Gentlemen—I hereby make application to your honorable body for the transfer of \$150 from account entitled "Supplies and Materials, City Clerk, Code No. 39, 1912," to account entitled "Supplies and Materials, Board of Aldermen, Code No. 37, 1912," for the reason that the sum appropriated for the latter account is not sufficient to cover the expenditures for the year 1912. Respectfully,
P. J. SCULLY, City Clerk.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated for the office of the Board of Aldermen and City Clerk for the year 1912, as follows:

FROM	
No. 39 Supplies and Materials, City Clerk.....	\$150 00
TO	
No. 37 Supplies and Materials, Board of Aldermen.....	\$150 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented resolutions (3) of the Board of Aldermen requesting, and a report of the Comptroller recommending, issues of special revenue bonds (sub-division 8, section 188, of the Charter), as follows:

- A.—\$2,354.16, to be used by Commissioner of Public Charities to employ help at Sea View Hospital, Richmond, for five months, beginning August 1, 1912.
- B.—\$1,500, to be used by President of the Borough of Brooklyn for the erection of headstones over the graves of deceased soldiers and sailors.
- C.—\$294.09, to be used for covering a deficit in the 1911 appropriations in the Office of Coroners, The Bronx.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand three hundred and fifty-four dollars and sixteen cents (\$2,354.16), the proceeds whereof to be used by the Commissioner of Public Charities for the purpose of employing help at the Sea View Hospital, Borough of Richmond, for the five months of 1912, beginning August 1.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand five hundred dollars (\$1,500), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of providing means for the erection of headstones over graves of deceased soldiers and sailors, Borough of Brooklyn, all obligations contracted for hereunder to be incurred on or before December 31, 1912.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and ninety-four dollars and nine cents (\$294.09), the proceeds whereof to be used by the Coroners of the Borough of The Bronx for the purpose of meeting a deficit in contingent account for the year 1911.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised as required by law. Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 15, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 9, 1912, the Board of Aldermen adopted resolutions requesting the issue of special revenue bonds, as follows:

(1) \$2,354.16, to be used by the Commissioner of Public Charities to employ help at Sea View Hospital, Borough of Richmond, for the five months of 1912 beginning August 1.

(2) \$1,500, to be used by the President of the Borough of Brooklyn for the erection of headstones over the graves of deceased soldiers and sailors.

(3) \$294.09, to be used for covering a deficit in 1911 appropriations in the offices of the Coroners of The Bronx.

I report on these requests as follows: (1) The \$2,354.16 requested for the purpose of employing help at the Sea View Hospital is necessary in order to provide for the salary of one Medical Superintendent at \$4,000 per annum, one Clerk at \$900 per annum and one Stenographer and Typewriter at \$750 per annum.

The services of these employees are necessary for the preparatory work preliminary to opening the hospital. It will be necessary for the Medical Superintendent to draw up specifications for the supplies, and to spend some time in the preliminary study of the organization of the help to be employed in the hospital. I recommend the authorization of the revenue bonds as requested.

(2) The President of the Borough of Brooklyn has received a number of applications for headstones over the graves of deceased soldiers and sailors in the cemeteries in Brooklyn. These stones cost approximately \$15 each. The President of the Borough states that he desires to erect about one hundred headstones. I recommend that \$1,500 in special revenue bonds be authorized to enable the Borough President to erect headstones over the graves of the deceased soldiers and sailors.

(3) In regard to the request of \$294.09 for meeting a deficit in the 1911 appropriation in the offices of the Coroners of The Bronx, I find that there are unpaid bills to the amount requested for services, as follows:

Memorandum, Unpaid Bills, 1911.

Table with 2 columns: Description and Amount. Items include Dr. Jeffries, examination of tissue, Mosbach case (\$25 00); J. P. Amato, Interpreter, Coroner Sch. (15 00); Wm. B. Stambaugh, repair time clock, office (10 50); Remington Typewriter Company, repairing machine (60); G. Baldo, Interpreter, July, 1911, to December, 1911 (130 00); Boulevard Garage, auto hire, \$11.25, Sch.; \$22.50, Sch. (33 75); Rach Bros., ice, July to December, 1911 (14 24); W. Bloom, Interpreter, Polish, Coroner Sch. (4 00); John Riegelman, fare (60 00).

\$294 09

I recommend the authorization of revenue bonds, as requested. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand three hundred and fifty-four dollars and sixteen cents (\$2,354.16), the proceeds whereof to be used by the Commissioner of Public Charities for the purpose of employing help at the Sea View Hospital, Borough of Richmond, for the five months of 1912, beginning August 1."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand three hundred and fifty-four dollars and sixteen cents (\$2,354.16), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand five hundred dollars (\$1,500), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of providing means for the erection of headstones over graves of deceased soldiers and sailors, Borough of Brooklyn, all obligations contracted for hereunder to be incurred on or before December 31, 1912."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand five hundred dollars (\$1,500), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, which reads as follows:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and ninety-four dollars and nine cents (\$294.09), the proceeds whereof to be used by the Coroners of the Borough of The Bronx for the purpose of meeting a deficit in contingent account for the year 1911."

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two hundred and ninety-four dollars and nine cents (\$294.09), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following report of the Comptroller and the President of the Borough of Manhattan, members of the Corporate Stock Budget Committee, recommending authorizations of corporate stock for the following purposes and in amounts as follows:

A—\$3,000 for making studies and plans for the elimination of grade crossings of steam railroads, Richmond;

B—\$1,000 for regrading and sodding the grounds and for rebuilding and repairing the steps to the east approach of the Carnegie Library Building at St. George, Richmond, under the jurisdiction of the President of the Borough of Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 16, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—Included in the request for corporate stock to be authorized in 1912, for the President of the Borough of Richmond, were two items, as follows:

Elimination of grade crossings..... \$5,000 00

Regrading and sodding the grounds and building and repairing the steps to east approach of Carnegie Library Building at St. George..... 1,000 00

It has not been possible for the Corporate Stock Budget Committee to prepare reports upon all the requests for the various Departments. We have reported simply upon the most urgent. We find that unless provision is made at once for carrying on the work of elimination of grade crossings in Richmond, there will be no money for salaries of the men engaged upon this work. Therefore we recommend the authorization of three thousand dollars (\$3,000), which will be sufficient to continue the work until a full report can be made upon the requests of the President of the Borough of Richmond.

The condition of the grounds around the Carnegie Library Building at St. George is such that some action should be taken at once to make the grounds more presentable. The steps to the east approach of the building should be rebuilt.

We recommend the authorization of one thousand dollars (\$1,000) for the work of regrading and sodding the grounds, and building and repairing the steps to east approach of Carnegie Library Building at St. George. Attached hereto are resolutions which, if adopted, will carry the recommendations into effect. Respectfully,

WM. A. PRENDERGAST, Comptroller; President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

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 three thousand dollars (\$3,000), in addition to amounts heretofore authorized, to provide means for defraying the expenses of making studies and plans for the elimination of grade crossings of steam railroads, in the Borough of Richmond, and for the supervision of the work of said elimination, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

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 one thousand dollars (\$1,000), to provide means for regrading and sodding the grounds, and building and repairing the steps to east approach of Carnegie Library Building at St. George, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote: Affirmative—The Mayor, the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—13. Negative—The President of the Board of Aldermen—3.

The Comptroller presented the following communication from the Department of Water Supply, Gas and Electricity relative to, and report of the Corporate Stock Budget Committee recommending, an authorization of \$140,500 corporate stock for Salaries and Wages, Labor Construction Force, for said Department:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park row, City of New York, July 12, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—The estimated amounts required to be authorized by the Board of Estimate and Apportionment for corporate stock purposes, sent to you on March 4, 1912, have not been acted upon except as to one item, which was authorized at the meeting yesterday. I am informed that probably the Board will act on the balance at the meeting on Monday, but I wish to call to your attention the fact that one of the accounts, which is for the payment of salaries and wages of employees engaged in corporate stock work, Boroughs of Manhattan and The Bronx, will be exhausted with this week's payroll.

I therefore request your good offices in urging action by the Board of Estimate and Apportionment before their adjournment. Yours truly,

HENRY S. THOMPSON, Commissioner. Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 15, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our recommendations for additional corporate stock authorizations for the Department of Water Supply, Gas and Electricity to provide for immediate requirements in four accounts of that Department.

The authorizations herein recommended cover an allowance for the maintenance of automobiles used by the Engineering Construction Force in the several Boroughs, which expense was previously improperly charged to Contingencies, and allowances for three accounts for salaries and wages of the construction forces of the Department.

The present accounts for salaries and wages, replenishment of which is herein recommended, are insufficient to meet the July and August payrolls, and a further allowance at this time is therefore necessary.

The recommended authorizations are as follows:

Short Title.	New Authorizations.	Existing Authorizations.
Maintenance of Automobiles.....	\$500 00	
	Additions to Existing Authorizations.	
C. D. W.—36B, Salaries and Wages, Labor Construction Force, Manhattan and The Bronx.....	\$20,000 00	
C. D. W.—37Q, Salaries and Wages, Labor Construction Force, Brooklyn.....	20,000 00	
C. D. W.—39, Salaries and Wages, Engineering Construction Force, All Boroughs.....	100,000 00	
	\$140,500 00	

We recommend the adoption of the attached resolutions. Respectfully,
WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

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 five hundred dollars (\$500), to provide means for the maintenance, repairs and storage of automobiles used by the Engineering Construction Force of the Department of Water Supply, Gas and Electricity in connection with improving the water supply systems of the Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

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 twenty thousand dollars (\$20,000), in addition to the amount heretofore authorized, to provide means for the payment of salaries and wages of the Labor Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply system of the Boroughs of Manhattan and The Bronx, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

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 thousand dollars (\$100,000), in addition to the amount heretofore authorized, to provide means for the payment of salaries and wages of the Engineering Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply systems of the Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

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 twenty thousand dollars (\$20,000), in addition to the amount heretofore authorized, to provide means for the payment of salaries and wages of the Labor Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply system of the Borough of Brooklyn, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the Surrogate, New York County, requesting, and report of the Comptroller recommending, modification of salary schedule No. 2177, for the office of the Surrogates' Court, New York County, for the year 1912, to be effective July 1, 1912, to provide for the salary of a Second Law Assistant:

Chambers of the Surrogates Court, County of New York, New York, July 8, 1912.

Hon. WILLIAM A. PRENDERGAST, Comptroller, 280 Broadway, City:
Dear Sir—The transfer of Mr. Anthony J. Barrett from the Transfer Tax Department of this office to the Law Department, concerning which Surrogate Fowler spoke with you some time ago, took place on the 1st inst. His official designation will be that of Second Law Assistant, and his salary has been fixed at \$5,000 per annum.

This appointment has been made pursuant to the authority vested in us by chapter 775 of the Laws of 1911, and we would respectfully request that you make the necessary provision for the payment of Mr. Barrett's salary. Yours very truly,
JOHN P. COHALAN, Surrogate.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On July 8, 1912, the Surrogates of New York County requested an appropriation of \$2,500 in special revenue bonds to meet the salary of a new law assistant in his court from July 1 to December 31, 1912, inclusive. In connection therewith I report as follows:

The Surrogates state that they appointed Mr. Anthony J. Barrett to the position of Second Law Assistant in his office on July 1, 1912, and pursuant to the provisions of chapter 775 of the Laws of 1911, fixed his salary at \$5,000 per annum.

Chapter 775 of the Laws of 1911 provides that the Surrogate of New York County "may appoint and remove all clerks, officers, attendants and employees in their office, or connected with their court. The compensation of each person so appointed shall be fixed by the Surrogates and the same shall be a county charge."

The payment of said salary being a mandatory county charge, provision will be made for the increase by the Comptroller, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I therefore recommend the adoption of the attached resolution modifying the appropriate salary schedule to include the increase. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Surrogates Court, New York County, for the year 1912, to be effective as of July 1, 1912, as follows:

Surrogates Court, New York County.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Personal Service, Administration—			
2177 Salaries, Regular Employees:			
Surrogate, 2 at \$15,000.....	\$30,000 00		\$30,000 00
Chief Clerk.....	10,000 00		10,000 00
Deputy Chief Clerk, at \$5,500.....	5,000 00	\$500 00	5,500 00
First Law Assistant, at \$6,000.....	4,300 00	1,700 00	6,000 00
Second Law Assistant, at \$5,000.....		5,000 00	5,000 00
Second Law Assistant, at \$4,500.....	3,300 00	1,200 00	4,500 00
Third Law Assistant, at \$4,000.....	3,300 00	700 00	4,000 00
Clerk of Court, at \$4,500.....	4,000 00	500 00	4,500 00
Deputy Clerk of Court, at \$2,750.....	2,250 00	500 00	2,750 00
Clerk, Additional Part of Court, at \$3,000.....	2,500 00	500 00	3,000 00
Clerk to Surrogate, 2 at \$3,000.....	5,000 00	1,000 00	6,000 00
Stenographer, at \$3,250.....	3,000 00	250 00	3,250 00
Stenographer, at \$2,750.....	2,500 00	250 00	2,750 00
Stenographer, at \$1,500.....	1,200 00	300 00	1,500 00
Assistant Stenographer, at \$1,500.....	1,200 00	300 00	1,500 00
Stenographer to Surrogate.....	1,500 00		1,500 00
Interpreter, at \$1,800.....	1,500 00	300 00	1,800 00
Calendar Clerk and Superintendent of Supplies.....	2,250 00		2,250 00
Probate Clerk, at \$5,000.....	4,000 00	1,000 00	5,000 00
First Assistant Probate Clerk, at \$2,400.....	2,000 00	400 00	2,400 00
Second Assistant Probate Clerk, at \$1,800.....	1,500 00	300 00	1,800 00
Third Assistant Probate Clerk, at \$1,350.....	1,000 00	350 00	1,350 00
Administration Clerk, at \$3,000.....	2,500 00	500 00	3,000 00
First Assistant Administration Clerk, at \$2,400.....	2,000 00	400 00	2,400 00
Second Assistant Administration Clerk, at \$1,800.....	1,500 00	300 00	1,800 00
Third Assistant Administration Clerk, at \$1,500.....	1,200 00	300 00	1,500 00
Guardian Clerk, at \$2,100.....	1,700 00	400 00	2,100 00
Assistant Guardian Clerk, at \$1,500.....	1,200 00	300 00	1,500 00
Guardian Accounting Clerk, at \$2,000.....	1,700 00	300 00	2,000 00
Accounting Clerk, at \$3,000.....	2,250 00	750 00	3,000 00
Assistant Accounting Clerk, at \$2,000.....	1,600 00	400 00	2,000 00
Entry Clerk, at \$2,100.....	1,800 00	300 00	2,100 00
Certificate Clerk.....	1,500 00		1,500 00
Bookkeeper, at \$1,800.....	1,500 00	300 00	1,800 00
Special Searcher.....	1,500 00		1,500 00
Correspondence Searcher, at \$1,500.....	1,400 00	100 00	1,500 00
Clerk of Record.....	1,800 00		1,800 00
Record Clerk, 5 at \$1,500.....	7,500 00		7,500 00
Superintendent Recording Clerk, at \$2,000.....	1,800 00	200 00	2,000 00
Chief Examiner.....	1,500 00		1,500 00
Assistant Examiner, at \$1,350.....	1,200 00	150 00	1,350 00
Recording Clerk, 20 at \$1,200.....	20,000 00	4,000 00	24,000 00
Copyist in Charge.....	1,200 00		1,200 00
Copyist, 3 at \$1,200.....	3,600 00	600 00	3,600 00
Librarian and Chief Messenger.....	1,800 00		1,800 00
Court Attendant, 6 at \$1,800.....	10,800 00		10,800 00
Court Messenger, 3 at \$1,800.....	5,400 00		5,400 00
Schedule Total.....			\$195,000 00
Tax levy part allowance.....			\$170,650 00
Rate of special revenue bond part allowance.....			24,350 00
Total Allowance.....			\$195,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following resolution of the Board of Aldermen requesting an issue of \$8,870, together with a report recommending an issue of \$6,750 special revenue bonds (subdivision 8, section 188 of the Charter), for salaries of nine additional employees, increase in the salary of the Director, and for supplies, equipment, etc., of the Standard Testing Laboratory, also recommending approval of a schedule for the fund, to be effective August 1, 1912:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of eight thousand eight hundred and seventy dollars (\$8,870), the proceeds whereof to be used by the Commissioner of Accounts for the purpose of providing means to pay the salaries of nine positions in the Standard Testing Laboratory attached to his office.

Adopted by the Board of Aldermen July 9, 1912, three-fourths of all the members elected voting in favor thereof, having been first advertised, as required by law.
Approved by the Mayor July 15, 1912. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:
Gentlemen—On July 9, 1912, the Board of Aldermen adopted a resolution requesting the issue of \$8,870 special revenue bonds to be used by the Commissioner of Accounts for the purpose of providing for additional employees, increase in the salary of the Director and for supplies, equipment, telephone service and contingencies for the Standard Testing Laboratory. In connection therewith I report as follows:

The requested sum of \$8,870 is to be divided as follows:	
Increase in salary of Director from \$4,500 to \$6,000.....	\$875 00
For additional force as follows:	
One Additional Fuel Engineering Chemist, at \$1,800 per annum.....	1,050 00
One additional Fuel Engineering Chemist, at \$1,500 per annum.....	875 00
Two additional Engineering Chemists, at \$1,200 per annum each.....	1,400 00
Three additional Coal Samplers, at \$1,200 per annum each.....	2,100 00
One Stenographer and Typewriter, at \$1,200 per annum.....	700 00
One Cleaner (male), at \$720 per annum.....	420 00
Supplies and Equipment.....	1,000 00
Telephone Service.....	150 00
Contingencies.....	300 00
	\$8,870 00

On March 12, 1912, the Commissioner of Accounts requested the Board of Aldermen to issue revenue bonds to provide for the above needs. At that time the Board decided to defer action in the matter until the grades of positions were established, pursuant to the provisions of section 56 of the Greater New York Charter. These grades were established by the Board of Estimate and Apportionment on May 23,

1912, and by the Board of Aldermen on July 9, 1912. Request is therefore made that action on the original request be taken in order that the additional force may be employed.

It is also requested that an issue of \$1,000 be made to cover the supplies and new equipment for the balance of the year. This is to be expended for apparatus, new working tables, including plumbing and electrical connections and for the maintenance of a new automobile crusher. A contingent fund of \$1,300 is requested to provide for additional carfares, inspection trips and other contingencies caused by a larger force and a more extended service.

Increased demands at the Laboratory require an additional trunk line and telephone extensions and to provide for fees for calls on the outlying boroughs of the City. Request is therefore made for \$150 for additional telephone service.

It will not be necessary to provide for these items for nine months, as requested by the Commissioner, but for the five months in the balance of the year. The following shows the reduction that can be made because of the reduction in time:

	Requested.	Reduction.	Required.
Increase in salary of Director.....	\$875 00	\$250 00	\$625 00
Additional force	6,545 00	1,870 00	4,675 00
Supplies and equipment.....	1,000 00	.....	1,000 00
Telephone service	150 00	.....	150 00
Contingencies	300 00	.....	300 00
	\$8,870 00	\$2,120 00	\$6,750 00

I therefore recommend the adoption of the attached resolutions concurring in the resolution of the Board of Aldermen to the extent of \$6,750 and modifying the schedules to permit of a proper audit. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 9, 1912, and approved by the Mayor July 15, 1912, requesting an issue of special revenue bonds in the sum of eight thousand eight hundred and seventy dollars (\$8,870), the proceeds thereof to be used by the Commissioner of Accounts for the purpose of providing means to pay the salaries of nine additional employees, increases in the salary of the Director and for supplies, equipment, telephone service and contingencies for the Standard Testing Laboratory, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of six thousand seven hundred and fifty dollars (\$6,750), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six thousand seven hundred and fifty dollars (\$6,750), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised, for the Standard Testing Laboratory for the year 1912, the schedule for salaries, regular employees, to be effective as of August 1, 1912, as follows:

STANDARD TESTING LABORATORY.
Personal Service.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Administration—			
1297 Salaries, Regular Employees:			
Director	\$4,500 00	\$1,500 00	\$6,000 00
Fuel Engineering Chemist	2,100 00	.....	2,100 00
Fuel Engineering Chemist, 3 at \$1,800....	3,600 00	1,800 00	5,400 00
Fuel Engineering Chemist .....	.....	1,500 00	1,500 00
Engineering Chemist	2,100 00	.....	2,100 00
Engineering Chemist	1,500 00	.....	1,500 00
Engineering Chemist, 2 at \$1,200.....	.....	2,400 00	2,400 00
Principal Coal Sampler.....	1,500 00	.....	1,500 00
Coal Samplers, 9 at \$1,200.....	7,200 00	3,600 00	10,800 00
Clerk	1,200 00	.....	1,200 00
Stenographer and Typewriter.....	.....	1,200 00	1,200 00
Stenographer	1,050 00	.....	1,050 00
Cleaner (male) .....	.....	720 00	720 00
Schedule Total			\$37,470 00
Tax Levy Part Allowance.....			\$24,750 00
Rate of Special Revenue Bond Part Allowance.....			12,720 00
Total Allowance			\$37,470 00
Supplies and Materials—			
1298 Administration			\$10,000 00
Tax Levy Allowance	\$9,000 00	.....
Special Revenue Bond Allowance.....	.....	1,000 00	
Total Allowance			\$10,000 00
Telephone—			
1299 Administration			\$250 00
Tax Levy Allowance	\$100 00	.....
Special Revenue Bond Allowance.....	.....	150 00	
Total Allowance			\$250 00
Contingencies—			
1300 Administration			\$1,150 00
Tax Levy Allowance	\$850 00	.....
Special Revenue Bond Allowance.....	.....	300 00	
Total Allowance			\$1,150 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the Fire Department requesting and report recommending the transfer of \$20,350, within appropriations made to said Department for the year 1912, also modification of salary schedule 880, for the year 1912, to conform to said transfer:

July 10, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, and Chairman of Board of Estimate and Apportionment:

Sir—Certain transfers of appropriations are requested to conduct the business of this Department for the balance of the current year.

In some cases the appropriation was insufficient and in others, by reductions and denials, enough has been saved to make up in some measure the deficiencies which are to some extent hampering the Department.

Request is therefore made for the approval of the transfers shown on the attached schedule, all of which are within the total appropriation made to this Department for the year 1912. Respectfully,

JOS. JOHNSON, Fire Commissioner.

Transfers Requested.

July 10, 1912.

Account.	FROM	
880	Fire Department, Bureau of Fire Prevention, Salaries, Regular Employees, Administrative, Clerical and Inspection Force, in addition to the Bureaus of Fire Marshals and Combustibles (item of rent)	\$2,000 00
885	Supplies and Materials, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens	550 00
887	Repairs to Furniture and Fittings, Maintenance and Operation.....	2,000 00
890	Vehicular Transportation, Horses and Vehicles without Drivers, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens.....	600 00
891	Shoing and Boarding Horses, including Veterinary Service, Maintenance and Operation.....	1,800 00
892	Shoing and Boarding Horses, including Veterinary Service, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens.....	2,000 00
895	Forage, Maintenance and Operation.....	7,000 00
902	Purchase of Furniture and Fittings, Maintenance and Operation....	3,000 00
902	Purchase of Furniture and Fittings, Maintenance and Operation....	2,000 00
		\$20,950 00

TO

Account.		
880	Fire Department, Bureau of Fire Prevention, Salaries, Regular Employees, Administrative, Clerical and Inspection Force, in addition to the Bureaus of Fire Marshals and Combustibles (item of supplies)	\$2,000 00
896	Forage, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens..	550 00
884	Supplies and Materials, Maintenance and Operation.....	2,000 00
896	Forage, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens..	600 00
896	Forage, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens..	1,800 00
896	Forage, Maintenance and Extension of the Fire Alarm System, including Apparatus for Volunteer Companies, Borough of Queens..	2,000 00
889	Maintenance, Repairs and Storage of Automobiles, Maintenance and Operation	7,000 00
884	Supplies and Materials, Maintenance and Operation.....	3,000 00
901	Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, except Automobiles.....	2,000 00
		\$20,950 00

Account.	Appropriation.	Encumbered.	Unencumbered.
880	Rent	\$5,193 00	\$5,193 00
885	.....	550 00	550 00
887	.....	3,000 00	\$126 12
890	.....	800 00	800 00
891	.....	2,500 00	266 50
892	.....	2,000 00	2,000 00
895	.....	217,845 00	139,488 52
902	.....	16,800 00	7,914 24
			8,885 76

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1912, the Fire Commissioner requested transfer of \$20,950 within appropriations made to his Department for the year 1912. On July 13, 1912, the request was orally amended to provide for transfer of \$20,350.

The request is in 11 supply accounts of which 5 are for credit transfers, as follows:

Bureau of Fire Prevention—			
880	Salaries, Regular Employees, Administrative, Clerical and Inspection Force, in addition to the Bureaus of Fire Marshal and Combustibles:		
	Supplies and Materials		\$2,000 00
Supplies and Materials.			
884	Maintenance and Operation		5,000 00
Maintenance, Repairs and Storage of Automobiles.			
889	Maintenance and Operation		7,000 00
Forage.			
896	Maintenance and Extension of the Fire Alarm System, Including Apparatus for Volunteer Companies, Borough of Queens.....		4,350 00
Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles, Except Automobiles.			
901	Maintenance and Operation		2,000 00
	Total		\$20,350 00

The Commissioner states that the transfers are on account of insufficient appropriations. He estimates that the transfers will carry the various accounts to the end of the year. There are ample balances for debit transfers.

I recommend the adoption of the attached resolutions granting the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Fire Department for the year 1912, as follows:

Account.	FROM	
Bureau of Fire Prevention.		
880	Salaries, Regular Employees, Administrative, Clerical and Inspection Force, in addition to the Bureaus of Fire Marshal and Combustibles:	
	Rent	\$2,000 00
Supplies and Materials.		
885	Maintenance and Extension of the Fire Alarm System, Including Apparatus for Volunteer Companies, Borough of Queens.....	550 00
Repairs to Furniture and Fittings.		
887	Maintenance and Operation	2,000 00
Shoing and Boarding Horses, Including Veterinary Service.		
891	Maintenance and Operation.....	1,800 00
892	Maintenance and Extension of the Fire Alarm System, Including Apparatus for Volunteer Companies, Borough of Queens..	2,000 00
Forage.		
895	Maintenance and Operation.....	7,000 00
Purchase of Furniture and Fittings.		
902	Maintenance and Operation	5,000 00
	TO	
Bureau of Fire Prevention.		
880	Salaries, Regular Employees, Administrative, Clerical and Inspection Force, in addition to the Bureaus of Fire Marshal and Combustibles:	
	Supplies and Materials	\$2,000 00
Supplies and Materials.		
884	Maintenance and Operation	5,000 00
Maintenance, Repairs and Storage of Automobiles.		
889	Maintenance and Operation	7,000 00

Forage.
 896 Maintenance and Extension of Fire Alarm System, Including Apparatus for Volunteer Companies, Borough of Queens..... 4,350 00
Purchase and Original Equipment of Apparatus, Machines, Harness and Vehicles.
 901 Maintenance and Operation 2,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Fire Department for the year 1912, to take effect as of July 1, 1912, as follows:

FIRE DEPARTMENT.

Bureau of Fire Prevention—	
880 Salaries, Regular Employees, Administrative, Clerical, and Inspection Force, in addition to the Bureaus of Fire Marshal and Combustibles:	
Chief	\$5,000 00
Deputy Chief	4,000 00
Chief Inspector	4,000 00
Assistant Electrical Engineer	3,000 00
Electrical Inspector, 2 at \$1,800.....	3,600 00
Chief Examiner	2,500 00
Examiner, 5 at \$1,500.....	7,500 00
Inspector, 2 at \$2,000.....	4,000 00
Inspector, 5 at \$1,800.....	9,000 00
Inspector, 20 at \$1,500.....	30,000 00
Inspector, 50 at \$1,200.....	60,000 00
Assistant Fire Marshal, 2 at \$2,500.....	5,000 00
Assistant Fire Marshal, 4 at \$1,500.....	6,000 00
Draftsman	1,500 00
Assistant Chemist	1,800 00
Clerk	1,800 00
Clerk	1,500 00
Clerk, 3 at \$900.....	2,700 00
Stenographer and Typewriter.....	1,500 00
Stenographer and Typewriter, 2 at \$1,050.....	2,100 00
Stenographer and Typewriter, 16 at \$900.....	14,000 00
Laborer, 1 at \$3 per day (366 days).....	1,098 00
Laborer, 2 at \$3 per day (314 days).....	1,884 00
Watchman, 2 at \$912.50.....	1,825 00
	\$175,707 00
Rent	\$3,193 00
Contingencies	11,100 00
Supplies and materials	10,000 00
	\$200,000 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following resolution of the Board of Education relative to, and report of the Committee on Salaries and Grades recommending, the establishment in the Department of Education of the grades of position of Inspector of Masonry and Carpentry at \$2,355 per annum for one incumbent, at \$1,500 per annum for three incumbents, and of Junior Draftsman at \$900 per annum for four incumbents.

(On June 20, 1912, the request of the Board of Education relative to the above was referred to the Committee on Salaries and Grades.)

Resolved, That the Board of Estimate and Apportionment be and it is hereby requested to recommend to the Board of Aldermen the establishment of the following positions in the Department of Education, in addition to the grades of positions already established:

- Architectural Draftsman, at \$2,550 per annum, for one incumbent.
- Architectural Draftsman, at \$2,400 per annum, for three incumbents.
- Architectural Draftsman, at \$2,250 per annum, for three incumbents.
- Architectural Draftsman, at \$1,200 per annum, for five incumbents.
- Junior Architectural Draftsman, at \$900 per annum, for two incumbents.
- Inspector of Masonry and Carpentry, at \$1,500 per annum, for three incumbents.
- Inspector of Masonry and Carpentry, at \$2,355 per annum, for one incumbent.

A true copy of resolution adopted by the Board of Education on June 12, 1912.
 A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 26, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1912, the Board of Education requested the establishment, pursuant to the provisions of section 56 of the Charter, of new grades of positions for eighteen incumbents, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Architectural Draftsman	\$2,550 00	1
Architectural Draftsman	2,400 00	3
Architectural Draftsman	2,250 00	3
Architectural Draftsman	1,200 00	5
Junior Architectural Draftsman.....	900 00	2
Inspector of Masonry and Carpentry.....	1,500 00	3
Inspector of Masonry and Carpentry.....	2,355 00	1

In connection therewith we report as follows:

The first four are requested for the purpose of increasing the salaries of twelve Architectural Draftsmen as follows:

Title.	Present Salary.	Proposed Salary.	Incumbents.
Architectural Draftsman.....	\$2,093 33	\$2,550 00	1
Architectural Draftsman.....	2,093 33	2,400 00	2
Architectural Draftsman.....	2,355 00	2,400 00	1
Architectural Draftsman.....	2,093 33	2,250 00	1
Architectural Draftsman.....	1,831 67	2,250 00	2
Junior Draftsman	900 00	1,200 00	5

The above increases are not offset by corresponding decreases in the salaries of persons now employed in the Bureau; it is therefore recommended that this part of the request be not approved.

There are at present four vacancies in the schedule (No. 1147). It is stated that they have existed for some time owing to the lack of an eligible list. They are Architectural Draftsman at \$1,962.50, \$1,700.83, \$1,177.50 and \$1,046.67, respectively; an unassigned balance of \$462.50 remains in the schedule. Two vacancies exist in the position of Inspector of Masonry and Carpentry at \$1,884 per annum. It is stated it is impracticable to fill them because of Civil Service complications.

It is proposed to eliminate these six positions from the schedule and substitute the five following: Inspector of Masonry and Carpentry, at \$1,500 per annum for three incumbents, and Junior Draftsman at \$900 per annum for two incumbents, and to use the accruals, together with a part of the balance unassigned, for the purpose of increasing salaries as aforesaid. The last item in the list represents a change of title only, from "Inspector of Masonry" to "Inspector of Masonry and Carpentry." It is very important that as many men as can be provided for within the allowance be made available without unnecessary delay.

In order to facilitate this, we recommend the adoption of the attached resolution providing for the establishment of seven new positions at minimum rates as follows: Inspector of Masonry and Carpentry at \$1,500 per annum for three incumbents, and Junior Draftsman at \$900 for four incumbents. This will add two positions to the schedule within the present appropriation, without opening the way for any salary increases.

We also recommend the change of title requested. Respectfully,
 WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Education of the grades of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	No. of Incumbents.
Inspector of Masonry and Carpentry.....	\$2,355 00	1
Inspector of Masonry and Carpentry.....	1,500 00	3
Junior Draftsman.....	900 00	4

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following communication from the Normal College of The City of New York relative to and report of the Committee on Salaries and Grades recommending the establishment in said College of the grades of positions of Architectural Designer, \$2,700, one incumbent; Architectural Draftsman, \$2,400, one incumbent; Architectural Draftsman, \$1,800, two incumbents; Structural Steel Draftsman, \$1,800, two incumbents; \$1,350, one incumbent; Architectural Draftsman, \$1,350, two incumbents; Mechanical Draftsman (Sanitary), \$1,500, one incumbent; Junior Draftsman, \$900, two incumbents:

(On June 20, 1912, the request of the Normal College in relation to the above was referred to said Committee.)

Board of Trustees of the Normal College of The City of New York, Office Hall of Board of Education, Park Ave. and 59th St., New York, June 14, 1912.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—I have the honor to transmit herewith a certified copy of preamble and resolution adopted by the Board of Trustees of the Normal College at a stated meeting held on June 12, 1912, in reference to the establishment of grades of positions of Draftsman and Designer for the Normal College. Respectfully yours,

A. E. PALMER, Secretary, Board of Trustees.

Whereas, In view of the large amount of designing and drafting work necessary in connection with the preparation of the plans for the new Normal College buildings, it is deemed necessary to establish a drafting corps to handle said work exclusively, so as not to interfere with the preparation of plans for public school buildings, as has been the case to some extent during the time that regular Draftsmen in the employ of the Board of Education have been assigned to the same; be it

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to recommend to the Board of Aldermen the establishment of the following grades of positions for the Normal College of The City of New York, and also, if necessary, to adopt salary schedules in connection therewith:

Position.	Annual Compensation.	Number of Incumbents.
Architectural Designer	\$2,700 00	1
Architectural Draftsman	2,400 00	1
Architectural Draftsman	1,800 00	2
Structural Steel Draftsman.....	1,800 00	2
Structural Steel Draftsman.....	1,350 00	1
Architectural Draftsman	1,350 00	2
Mechanical Draftsman (Sanitary).....	1,500 00	1
Junior Architectural Draftsman.....	900 00	2

A true copy of preamble and resolution adopted by the Board of Trustees of the Normal College on June 12, 1912.

A. E. PALMER, Secretary, Board of Trustees.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 26, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1912, the Board of Trustees of the Normal College of The City of New York requested the establishment, pursuant to the provisions of section 56 of the Charter, of positions for drafting corps, as follows:

Title.	Rate Per Annum.	Number of Incumbents.	Amount.
Architectural Designer.....	\$2,700 00	1	\$2,700 00
Architectural Draftsman	2,400 00	1	2,400 00
Architectural Draftsman	1,800 00	2	3,600 00
Structural Steel Draftsman	1,800 00	2	3,600 00
Structural Steel Draftsman	1,350 00	1	1,350 00
Architectural Draftsman	1,350 00	2	2,700 00
Mechanical Draftsman (Sanitary).....	1,500 00	1	1,500 00
Junior Draftsman	900 00	2	1,800 00
			\$19,650 00

Corporate stock in the sum of \$628,630 for new buildings was authorized during 1909, 1910 and 1911. The first section is now under construction and it is desired to start the plans for the second section in the near future. Corporate stock in the sum of \$656,000 has been requested for this purpose for 1912. The designing and drafting work for the first section was done by the regular staff employed in the Bureau of Buildings, Department of Education. Such a large amount of unfinished work remains on public school buildings for which funds were authorized in 1911, that Superintendent C. B. J. Snyder, who has charge of the construction of the college buildings also, objects to having his regular men undertake the Normal College work. It is therefore proposed to establish a new corps for this purpose.

We recommend the adoption of the attached resolution providing for the establishment of the grades. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:
 Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Charter, hereby recommends to the Board of Aldermen the establishment in the Normal College of The City of New York of grades of positions in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	No. of Incumbents.
Architectural Designer.....	\$2,700 00	1
Architectural Draftsman.....	2,400 00	1
Architectural Draftsman.....	1,800 00	2
Structural Steel Draftsman.....	1,800 00	2
Structural Steel Draftsman.....	1,350 00	1
Architectural Draftsman.....	1,350 00	2
Mechanical Draftsman (Sanitary).....	1,500 00	1
Junior Draftsman.....	900 00	2

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The vote by which the resolution was adopted disapproving of request of Board of Aldermen for an issue of \$250 special revenue bonds (subdivision 8, section 188 of the Charter), for an increase in salary of Frederick Richter, Clerk in the office of the City Clerk, was reconsidered, and

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen June 4, 1912, requesting an issue of special revenue bonds in the sum of two hundred and fifty dollars (\$250), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen to meet increase from \$1,750 to \$2,250 per annum, in salary of Frederick Richter, Clerk, for the remainder of the year 1912, beginning July 1, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York, to an amount not exceeding two hundred and fifty dollars (\$250), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The vote by which the resolution was adopted disapproving of the request of the Board of Aldermen for an issue of \$250 special revenue bonds (subdivision 8, section 188 of the Charter) for an increase in salary of John J. Flaherty, Clerk in the office of the City Clerk, was reconsidered and

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen June 4, 1912, requesting an issue of special revenue bonds in the sum of two hundred and fifty dollars (\$250), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen to meet an increase from \$2,000 to \$2,500 per annum in salary of John J. Flaherty, Clerk, for the remainder of the year 1912, beginning July 1, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two hundred and fifty dollars (\$250), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following resolutions of the Board of Aldermen requesting, and report recommending issue of special revenue bonds (subdivision 8, section 188, of the Charter), to the amounts of \$343.05, \$612.50, and \$291.67, to provide for increases in salaries of Albert E. Hull, Stenographer and Committee Clerk; Thaddeus C. Wasserman, William Haubert and Charles A. Glaser, Clerks in the office of the City Clerk and Board of Aldermen.

(On May 16, 1912, the resolutions of the Board of Aldermen requesting the above were referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds in the amount of three hundred and forty-three dollars and five cents (\$343.05), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increase in salary of Albert E. Hull, Stenographer and Committee Clerk, from \$3,000 to \$3,500 per annum, from April 24 to December 31, 1912.

Adopted by the Board of Aldermen April 30, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor May 14, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds in the amount of six hundred and twelve dollars and fifty cents (\$612.50), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increases in salaries of Thaddeus C. Wasserman and William J. Haubert, Clerks, for the remainder of the year 1912, beginning June 1, as follows:

Thaddeus C. Wasserman, advanced from \$1,800 to \$2,250 per annum.....	\$262 50
William J. Haubert, advanced from \$1,200 to \$1,800 per annum.....	350 00

Adopted by the Board of Aldermen April 30, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor May 14, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and ninety-one dollars and sixty-seven cents (\$291.67), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increase in salary of Charles A. Glaser, Clerk, for the remainder of the year 1912, beginning June 1, advanced from \$2,000 to \$2,500 per annum.

Adopted by the Board of Aldermen April 30, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor May 14, 1912, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, May 22, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 30, 1912, the Board of Aldermen adopted resolutions requesting \$1,247.22 in special revenue bonds to be used by the City Clerk and Clerk of the Board of Aldermen for payment of increases in salary to December 31, 1912, as follows:

	Amounts Required to Dec. 31.
From April 24, 1912.	
Albert E. Hull, Stenographer and Committee Clerk, from \$3,000 to \$3,500.	\$345 05
From June 1, 1912.	
Thaddeus C. Wasserman, Clerk, from \$1,800 to \$2,250.....	262 50
Charles A. Glaser, Clerk, from \$2,000 to \$2,500.....	291 67
William J. Haubert, Clerk, from \$1,200 to \$1,800.....	350 00
	\$1,247 22

In connection therewith I report as follows:

The grade of position of Stenographer and Committee Clerk for one incumbent at \$3,500 per annum was established on April 16, 1912, pursuant to the provisions of section 56 of the Greater New York Charter.

The present incumbent of the position is Mr. Albert E. Hull, and he has been in the City service since the year 1890. On January 1, 1898, he was appointed Stenographer to the Council at \$2,000 per annum. On January 1, 1902, he was transferred to the same position in the Board of Aldermen at the same salary. On July 14, 1903, his salary was increased to \$2,250. On December 27, 1905, his salary was fixed at \$2,500. On May 3, 1910, his title was changed to Stenographer and Committee Clerk and the salary made \$3,000.

In behalf of Mr. Hull it is urged that his long service with the Board of Aldermen and his intimate acquaintance with the work of the various City departments, boards and commissions have equipped him to render invaluable service in the matters which come before the Board for action.

The only position with which a comparison as to rate of salary may be made is that of Stenographer to the Board of Estimate and Apportionment, which was fixed on April 30, 1907, at \$3,500 per annum.

Mr. Wasserman has been an employee of the Board of Aldermen since January, 1895, when he entered the service as a Clerk at \$1,200. When the consolidation of the Greater City took effect in 1898 he was continued in the same capacity under the City Clerk and Clerk of the Board of Aldermen. On February 9, 1903, his salary was increased to \$1,350, on May 24, 1905, to \$1,650, and on January 1, 1908, to \$1,800.

Mr. Wasserman has entire charge of all stationery and requisitioned supplies for the 73 members of the Board of Aldermen and for the office of the City Clerk. Included in the latter are blanks of all kinds for the Marriage License Bureau, the issuance of hunters', auctioneers' and electric sign licenses and the many books and blanks necessary for the work connected with the 7,500 Commissioners of Deeds.

He is engaged from time to time in the investigation of complaints against auctioneers. He is also assigned to the proving of correct entry of marriage license applications in the books of record before transmitted to the County Clerk.

The City Clerk states that a comparison of salary may be made with that of the Superintendent of Supplies in the Surrogate's Office of New York County. The rate of compensation for the Superintendent of Supplies is \$2,250 per annum, and the City Clerk states that the work of the position does not cover such a range as that of Mr. Wasserman.

Mr. Haubert is the Index Clerk in the Marriage License Bureau, Borough of Brooklyn. On May 1, 1896, he was appointed as Assistant Salary Warrant Clerk in the Comptroller's Office of the former City of Brooklyn, at a salary of \$1,200 per annum, and on August 1, 1896, he was increased to \$1,500. On January 8, 1899, his position was abolished. On July 1, 1908, he was appointed a clerk in the City Clerk's Office, Borough of Brooklyn, at \$1,200 per annum. Mr. Haubert, in addition to acting as Index and Entry Clerk, also acts as the German Interpreter for the office. The following is the number of marriage licenses issued in the Brooklyn office for the past four years:

1908	11,664
1909	12,807
1910	14,325
1911	15,201

Total

53,997

The amount received on account of all the licenses was \$53,997.

Mr. Glaser was appointed a Clerk in the Board of Aldermen in January, 1895, at a salary of \$1,200 per annum. In 1903 he was increased to \$1,500; in 1905 to \$1,650; in 1907 to \$1,800, and in 1908 to \$2,000 per annum.

Mr. Glaser's duties consist in the filing of all papers in City Clerk's Office and keeping a book record of same, showing serial numbers, including oaths of office of all civil employees of the City; the issuance of auctioneers' licenses, together with a book record of the results of trials and the approval and filing of bonds; approving and filing of marshals' bonds and appointments; keeping a book record of all deeds, mortgages, leases, contracts, franchises, etc., and examines and prepares the same for signature of the City Clerk, together with the index for same. He also keeps an indexed record of all opinions of the Corporation Counsel rendered to City Clerk, relieves the Cashier whenever absent, and is assigned by the City Clerk to issue marriage licenses in case of illness of one of contracting parties.

I recommend the adoption of the attached resolutions granting the requests and approving the necessary schedule modification. Respectfully,

DOUGLAS MATHEWSON, Deputy and Acting Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 30, 1912, requesting an issue of special revenue bonds in the sum of three hundred and forty-three dollars and five cents (\$343.05), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen, for the purpose of meeting increase in salary of Albert E. Hull, Stenographer and Committee Clerk, from \$3,000 to \$3,500 per annum, from April 24 to December 31, 1912, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and forty-three dollars and five cents (\$343.05), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 30, 1912, requesting an issue of special revenue bonds in the sum of six hundred and twelve dollars and fifty cents (\$612.50), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increases in salaries of Thaddeus C. Wasserman and William J. Haubert, Clerks, for the remainder of the year 1912, beginning June 1, as follows:

Thaddeus C. Wasserman, advanced from \$1,800 to \$2,250 per annum....	\$262 50
William J. Haubert, advanced from \$1,200 to \$1,800 per annum.....	350 00

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six hundred and twelve dollars and fifty cents (\$612.50), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 30, 1912, requesting an issue of special revenue bonds in the sum of two hundred and ninety-one dollars and sixty-seven cents (\$291.67), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of meeting increase in salary of Charles A. Glaser, Clerk, for the remainder of the year 1912, beginning June 1, advanced from \$2,000 to \$2,500 per annum, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two hundred and ninety-one dollars and sixty-seven cents (\$291.67), 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, the Presidents of the Boroughs of Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the Board of Aldermen and City Clerk, for the year 1912, to be effective as of July 1, 1912, with the exception of the lines "Vice-Chairman of the Board of Aldermen" and "Chairman of the Committee on Finance," which are to be effective as of April 4, 1912, the line "Stenographer and Committee Clerk," which is to be effective as of April 24, 1912, and with the exception of the first line reading "Clerk, 1 at \$2,250" and the first line reading "Clerk, 1 at \$2,500" and the line "Clerk, 2 at \$1,800" in the schedule entitled City Clerk, Brooklyn, No. 34, Salaries, Regular Employees, which are to be effective as of June 1, 1912, as follows:

BOARD OF ALDERMEN AND CITY CLERK.
Personal Service.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bond Fund.	Total.
Board of Aldermen—			
30 Salaries, Regular Employees:			
President, Board of Aldermen.....	\$5,000 00	.....	\$5,000 00
Aldermen, 71 at \$2,000.....	142,000 00	.....	142,000 00
Vice-Chairman of Board of Aldermen....	2,000 00	2,000 00	4,000 00
Chairman of the Committee on Finance....	2,000 00	2,000 00	4,000 00
City Clerk and Clerk to the Board of Aldermen	8,000 00	.....	8,000 00
Chief Clerk	5,000 00	.....	5,000 00
Assistant Chief Clerk.....	2,500 00	.....	2,500 00
Stenographer and Committee Clerk, 1 at \$3,500	3,000 00	\$500 00	3,500 00
Document Clerk	2,650 00	.....	2,650 00
Ordinance Clerk (formerly Assistant Document Clerk)	3,000 00	.....	3,000 00
Clerk, 1 at \$2,500.....	2,000 00	500 00	2,500 00
Clerk, 1 at \$2,500.....	2,000 00	500 00	2,500 00
Clerk, 1 at \$2,250.....	1,800 00	450 00	2,250 00
Clerk, 1 at \$2,250.....	1,750 00	500 00	2,250 00
Clerk, 1 at \$1,800.....	1,800 00	.....	1,800 00
Clerk, 3 at \$1,500.....	4,500 00	.....	4,500 00
Clerk, 1 at \$1,350.....	1,350 00	.....	1,350 00
Librarian	2,500 00	.....	2,500 00
Sergeant-at-Arms	1,500 00	500 00	2,000 00
Assistant Sergeant-at-Arms, 8 at \$1,200.....	9,600 00	.....	9,600 00
Secretary to Chairman of Committee on Finance	1,500 00	.....	1,500 00
Schedule Total .....	.....	.....	\$212,400 00
Tax Levy Allowance.....	.....	.....	\$203,950 00
Rate of Special Revenue Bond Allowance.....	.....	.....	8,450 00
Total Allowance .....	.....	.....	\$212,400 00

BOARD OF ALDERMEN AND CITY CLERK.
Personal Service.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bond Fund.	Total.
City Clerk, Brooklyn—			
34 Salaries, Regular Employees:			
Clerk	\$3,500 00	.....	\$3,500 00
Custodian of Records.....	1,500 00	.....	1,500 00
Electric Sign Clerk.....	1,500 00	.....	1,500 00
Clerk, 2 at \$1,800.....	3,000 00	\$600 00	3,600 00
Clerk, 2 at \$1,200.....	2,400 00	.....	2,400 00
Italian Interpreter	1,200 00	.....	1,200 00
Hebrew Interpreter	1,200 00	.....	1,200 00
Schedule Total .....	.....	.....	\$14,900 00
Tax Levy Allowance.....	.....	.....	\$14,300 00
Rate of Special Revenue Bond Allowance.....	.....	.....	600 00
Total Allowance .....	.....	.....	\$14,900 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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

After disposing of the Public Improvement Calendar, and pursuant to a motion adopted at the meeting held June 27, 1912, the Board adjourned to meet Thursday, September 19, 1912, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Monday, July 15, 1912, at 10.30 a. m.

PUBLIC IMPROVEMENT MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn, and Thomas W. Whittle, Acting President, Borough of The Bronx.

The Mayor, Hon. William J. Gaynor, presided.

The Chair announced a recess until 3.30 o'clock p. m.

At 3.30 o'clock p. m. the Board reconvened.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Thomas W. Whittle, Acting President, Borough of The Bronx; Maurice E. Connolly, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

After disposing of the Franchise and Financial Calendars, the following Public Improvement Matters were considered:

ACQUIRING TITLE TO FULTON AVENUE, FROM MILLS STREET TO WELLING STREET; TO MAIN STREET, FROM GRAND AVENUE TO VAN ALST AVENUE; TO STEVENS STREET, FROM FULTON AVENUE TO MAIN STREET; AND TO GRAND AVENUE, FROM MAIN STREET TO STEVENS STREET, BOROUGH OF QUEENS.

(At the meeting of the Board on June 27, 1912, this matter was laid over for two weeks, and on July 11 it was laid over until July 15.)

On motion of the President of the Borough of Queens, the matter was referred back to him for further consideration.

SEWER IN GRAND AVENUE, FROM 11TH AVENUE TO STEINWAY AVENUE, BOROUGH OF QUEENS.

(Final Authorization.)

The following report of the Chief Engineer was presented:

Report No. 11330.

July 12, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the President of the Borough of Queens, advising that all of the conditions imposed by the Board prior to the authorization of the following local improvement have been complied with:

Sewer in Grand avenue, from 11th avenue to Steinway avenue.

The preliminary work for this improvement was authorized by the Board of Estimate and Apportionment on March 7, 1912, at which time information was presented to show that its probable cost would be about \$400. The Borough President states that the time to be allowed for the completion of the improvement is twenty days, and that the expense incurred for the preliminary work amounts to \$25.99.

The work to be done comprises the following: 190 linear feet 12-inch pipe sewer, 2 manholes.

The cost of the improvement is now estimated to be \$600.

I see no reason why the construction work required to carry out this improvement should not be authorized, and would recommend such action. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was then adopted:

A copy of a resolution of the Local Board of the Newtown District, duly adopted by said Board on the 1st day of December, 1911, and approved by the President of the Borough of Queens on the 9th day of December, 1911, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

Resolved, That this Board does hereby initiate proceedings for the said local improvement, to wit:

"For the construction of a sewer and appurtenances in Grand avenue, from 11th avenue to Steinway avenue, 1st Ward of the Borough of Queens,"

—and thereupon, on the 7th day of March, 1912, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of Queens to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of Queens had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of Queens, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$600, and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$29,000, having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

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

RULE MAP IN THE PROCEEDING FOR ACQUIRING TITLE TO QUEENS BOULEVARD, FROM VANDAM STREET TO HILLSIDE AVENUE, TOGETHER WITH THE DAMAGE MAP FOR THAT PORTION OF THE STREET LYING WEST OF GREENPOINT AVENUE, BOROUGH OF QUEENS.

The following report of the Chief Engineer was presented:

Report No. 11331.

July 12, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary of the Borough of Queens, bearing date of July 5, 1912, presenting for consideration the rule map prepared for the court record and for the use of the Commissioners of Estimate and Assessment to be appointed in the proceeding for acquiring title to Queens boulevard, from Vandam street to Hillside avenue, together with the damage map for that portion of the street lying west of Greenpoint avenue.

This proceeding was instituted by the Board of Estimate and Apportionment on October 19, 1911. It is deemed of an exceptionally urgent nature, and to expedite the appointment of the Commissioners the damage maps, which involve a considerable amount of work, will be submitted in sections.

The one now under consideration includes about one-seventh of the entire street length and affects an area of 936,649.1 square feet, corresponding in dimensions with the plan under which the street was laid out. Of this area, 489,299.1 square feet has been acquired in connection with opening proceedings relating to Vandam street, Bragaw street, Honeywell street and Thomson avenue, leaving a net area of 447,350 square feet to be acquired under the new proceeding. The street is not in use excepting on the southerly side, where it includes at a lesser width old Thomson avenue. The abutting property is generally unimproved, but six buildings, together with porches, steps and fences, encroach upon the land to be acquired.

Portions of the street within the lines of some of the intersecting streets and within old Thomson avenue, are shown on maps filed by the property owners between March 26, 1871, and June 29, 1911.

I would recommend the approval of the maps, and that after certification they be forwarded to the Corporation Counsel. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was then adopted:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby approves the rule map, submitted by the President of the Borough of Queens, to be used by the Corporation Counsel in the proceeding instituted by said Board on October 19, 1911, for acquiring title to Queens boulevard, from Vandam street to Hillside avenue; also the damage map for that portion of Queens boulevard lying west of Greenpoint avenue, Borough of Queens.

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

ACQUISITION OF TITLE TO THE LANDS AND PREMISES REQUIRED FOR THE EXTENSION OF 7TH AVENUE AND FOR THE WIDENING AND EXTENSION OF VARICK STREET, BOROUGH OF MANHATTAN.

The following were presented:

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 13, 1912.

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

Dear Sir—

President McAneny would like to have the hearing on the Seventh Avenue Extension set down for September 19, in case it has not already been done. If you are printing any additional public improvement matters, will you kindly have this matter appear as well. Yours very truly,

LEO ARNSTEIN, Secretary, Borough of Manhattan.

In the Local Boards of the Murray Hill and Greenwich Districts.

Whereas, A petition for a local improvement described below has been received by the President of the Borough of Manhattan; and

Whereas, He has appointed a time for a meeting of these Local Boards not more than fifteen days after the receipt by him of the said petition, at which meeting the said petition would be submitted by him to the said Local Boards, and he has caused a notice to be published in the CITY RECORD that said petition has been presented to him and is on file in his office for inspection, and of the time when and the place where there would be a meeting of these Local Boards at which the said petition would be submitted by him to the said Boards, which time was not less than ten days after the publication of this notice; and

Whereas, The said petition was duly submitted thereafter to the said Local Boards, which did duly consider the same and give a full hearing thereon; now therefore it is

Resolved, by the Local Boards of the Murray Hill and Greenwich Districts, pursuant to titles 2 and 3 of chapter 10 of the Greater New York Charter, That the said petition be and the same hereby is granted; and it is hereby

Resolved, That these Boards do hereby initiate proceedings for the said local improvement, to wit:

To acquire title to the extension of 7th avenue, from the present southerly end of Carmine street; the widening of Varick street, from Carmine street to Franklin

street, and the extension of Varick street, from Franklin street to West Broadway, as heretofore laid out upon the map or plan of The City of New York.

—and it is hereby further

Resolved, That a copy of this resolution be transmitted forthwith to the Board of Estimate and Apportionment for its approval.

Adopted by the Local Boards of the Murray Hill and Greenwich Districts on the 2d day of July, 1912, all the members present voting in favor thereof.

Attest: JULIAN B. BEATY, Secretary.

Approved this 3d day of July, 1912.

GEORGE McANENY, President of the Borough of Manhattan.

Report No. 11381.

July 15, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—On July 2, 1912, the Local Boards of the Murray Hill and Greenwich Districts, Borough of Manhattan, adopted a resolution initiating proceedings for the acquisition of title to the land required for the extension of 7th avenue, from its present southerly end to Carmine street; the widening of Varick street, from Carmine street to Franklin street; and the extension of Varick street as widened from Franklin street to West Broadway.

At the meeting of the Board of Estimate and Apportionment held on July 15, 1912, a communication was submitted by the President of the Borough of Manhattan requesting the Board to fix September 19 as a date for a public hearing on the areas of assessment over which the expenses of this proceeding are to be distributed.

The extension of 7th avenue and the widening of Varick street have been under discussion for the past five years, and in October, 1907, a report was submitted to the Board outlining in considerable detail several different plans for the improvement of the west side of Manhattan below Greenwich avenue, the development of which had been greatly retarded owing to the irregular and inadequate street system of the old Greenwich Village. The most obviously necessary of all of these plans was considered to be the southerly extension of 7th avenue and the widening of Varick street, although, as was pointed out in the report of 1907 and in subsequent reports, the widening of Carmine street, between 6th avenue and Varick street would result in supplying at the same time a much needed outlet for 6th avenue.

A Select Committee of the present Board of Estimate and Apportionment has had under consideration the distribution of the expense of this improvement and has held several largely attended public hearings, at which it seemed to be agreed that at least a portion of the expense should be raised by local assessment. The petition to the Local Boards of the Murray Hill and Greenwich Districts upon which their resolution was based requested them to recommend to the Board of Estimate and Apportionment that "the whole cost of this work be paid by the City at large." In this same petition it was stated that it would be "unfair that the small property owners of the lower west side should be burdened with an assessment which would cause many of them to lose their properties."

The Board of Estimate and Apportionment on April 11, 1912, adopted a certain policy to be followed with respect to improvements of this nature, included in which was the declaration that "the principle of local benefit shall always be recognized, in view of the fact that no improvement can be carried out which does not to some degree enhance the value of the property in the immediate vicinity." It might, therefore, be stated that it would be obviously unfair to carry out without local assessment an improvement which would enormously enhance the value of the property of these small owners on "the lower west side" and to place the burden of this improvement upon every portion of the City, in parts of which there would be no direct benefit whatever.

In endeavoring to determine how much of the expense could properly be assessed upon the immediate locality, that is, upon the property fronting on the new and widened streets to the depth of 100 feet, it has been assumed that between Greenwich avenue and Carmine street, owing to the obliquity of the present street system with respect to the proposed new street, it would be unfair to impose upon the frontage the full cost of the land required for a street 60 feet in width, and it has been assumed that under the peculiar conditions which prevail, the land needed for a street 30 feet in width would be, with one-fourth of the excess over 60 feet, a proper measure of local benefit to the property fronting on the new street. This would be equivalent to 40 feet of the 100 feet required for the new street. It has further been assumed that, owing to the irregularity of the street system, one-third of the land damage would be due to the unfavorable shape and size of lots or parts of lots lying outside the lines of the street. Between Carmine and Franklin streets, where the improvement consists simply of the widening of the existing street, it is assumed that the land damage for one-fourth of the total width to be acquired should be the limit of the local assessment, while between Franklin street and West Broadway, where the improvement will consist of the widening of a street already 90 feet wide, there will be no special burden to be placed upon the new frontage except for the general benefit which will result from the creation of the entire street.

It is also assumed that all damage to buildings will be included in the district of general assessment and no part of it will be imposed upon the frontage.

It is found that the assessed values of the property in this part of the Borough of Manhattan have been unchanged during the past five years, and computing the proportion of the total cost to be imposed upon the frontage in accordance with the plan just outlined, it is found that its proportion would be 11.6 per cent., and after making a fair allowance for the increase over the present assessed values, an assessment to this amount would not be excessive, but that it would be considerably less than assessments which have lately been levied for street openings and street widenings of far less importance.

The area upon which a public hearing was given by the Select Committee of the Board, which extended on both sides of 7th avenue to the middle of the block between 42d and 43d streets, and to a width of one-half a block, widening between 17th and 18th streets to one and a half blocks on each side, which general width was maintained as far south as Fulton street, appears to be about as equitable as could be devised for a district of benefit which would exclude the frontage already discussed. It has been proposed that this district should be extended northwardly along 7th avenue to Central Park, but it is found that with the gradation of assessment usually followed by the Bureau of Street Openings, a very small additional sum would be raised by such extension.

The Corporate Stock Budget Committee has already recommended, and the Board has authorized, an issue of corporate stock to the amount of \$3,000,000, which it was believed would meet about 50 per cent. of the cost of the entire improvement, this apparently being intended for the proportion of the cost which should be placed upon the City at large. In view of the fact that the Board has endeavored to reduce issues of corporate stock to the lowest possible figure, it might be well to resort to the provisions of the Gerhardt Bill and place a large proportion or all of the burden upon the district and one or more Boroughs, in accordance with the estimated benefit. Your Engineer has accordingly worked out three different plans for the division of expense, as follows:

Plan No. 1.

District A, constituting the immediate frontage upon the new and widened street to a depth of 100 feet, 10 per cent.

District B, including the area of assessment upon which the hearings were given by the Select Committee of the Board but excluding District A, 40 per cent.

District C, being the City at large, 50 per cent.

Plan No. 2.

District A, constituting the immediate frontage on the new and widened street to a depth of 100 feet, 10 per cent.

District B, including the area upon which the Select Committee of the Board has given hearings but excluding District A, 30 per cent.

District C, the Borough of Manhattan, 30 per cent.

District D, the City at large, 30 per cent.

Plan No. 3.

District A, constituting the immediate frontage on the new and widened street to a depth of 100 feet, 10 per cent.

District B, including the area of assessment upon which the Select Committee of the Board has given public hearings, but excluding District A, 35 per cent.

District C, the Borough of Manhattan, 43 per cent.

District D, the Borough of Brooklyn, 9 per cent.

District E, the Borough of The Bronx, 3 per cent.

Plan No. 3 may be considered a substitute for Plan No. 1, under which, instead of issuing corporate stock and increasing the City's debt, 55 per cent. of the entire cost of the proceeding would be placed upon the three Boroughs chiefly affected, while 45 per cent. would be assessed directly in proportion to special benefit. The three

Boroughs most directly affected are Manhattan, Brooklyn and The Bronx, and in apportioning the 55 per cent. between these Boroughs an effort has been made to distribute not the gross amount to be collected, but the additional tax burden per unit of value in proportion to the probable benefit. These three Boroughs between them contained in 1911 93 per cent. of the assessed value of real estate in the entire City, Manhattan having 64 per cent., Brooklyn 21 per cent., and The Bronx 8 per cent. This is equivalent to 69 per cent., 22 per cent. and 9 per cent. for the three Boroughs, respectively, of the total assessed values in these three Boroughs. The benefit and consequently the assessment for each unit of value in the Borough of Manhattan would be materially greater than in either Brooklyn or The Bronx, while the benefit to Brooklyn would be substantially greater than to The Bronx. The proportions proposed under Plan No. 3 are such that for every dollar of assessment per unit of value in Manhattan, the assessment for the same value in Brooklyn would be 68 cents, and in The Bronx 48 cents, and in the judgment of your Engineer this would probably represent the relative value of this improvement to the three Boroughs, while it would be difficult to discover any direct benefit to the Boroughs of Queens and Richmond, both of which Boroughs have other improvements of their own which will involve substantial local assessment.

The descriptions by metes and bounds of District A and District B as given in all three of the plans are as follows:

District "A."

Beginning at a point on the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of 7th avenue extension, the said distance being measured at right angles to the 7th avenue extension, where it is intersected by a line midway between West 11th street and West 12th street; and running thence southwardly along the said line parallel with 7th avenue extension to a point distant 100 feet easterly from the easterly line of Varick street, the said distance being measured at right angles to Varick street; thence southwardly and always distant 100 feet easterly from and parallel with the easterly line of Varick street and its prolongation to the intersection with the prolongation of a line midway between White street and Franklin street; thence eastwardly along the said line midway between White street and Franklin street and along the prolongation thereof to a point distant 100 feet easterly from the easterly line of West Broadway; thence southwardly and parallel with West Broadway to a point distant 100 feet southerly from the southerly line of Leonard street; thence westwardly and parallel with Leonard street to a point distant 100 feet westerly from the prolongation of the westerly line of Varick street as this street adjoins Leonard street, the said distance being measured at right angles to Varick street; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Varick street and the prolongation thereof to a point distant 100 feet westerly from the prolongation of the westerly line of 7th avenue extension; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of 7th avenue extension and its prolongations to the intersection with the prolongation of a line midway between West 11th street and West 12th street, as laid out east of 7th avenue; thence eastwardly along the said line midway between West 11th street and West 12th street and along the prolongation of the said line to the point or place of beginning.

District "B."

Beginning at a point on a line midway between West 42d street and West 43d street where it is intersected by a line midway between 6th avenue and 7th avenue, and running thence southwardly along the said line midway between 6th avenue and 7th avenue to the intersection with a line midway between West 17th street and West 18th street; thence eastwardly along the said line midway between West 17th street and West 18th street to the intersection with a line midway between 5th avenue and 6th avenue; thence southwardly along the said line midway between 5th avenue and 6th avenue to the intersection with a line midway between West 8th street and West 9th street; thence eastwardly along the said line midway between West 8th street and West 9th street to the intersection with the prolongation of a line midway between McDougal street and Sullivan street; thence southwardly along the said line midway between McDougal street and Sullivan street and along the prolongation thereof to the intersection with a line midway between Bleeker street and West Houston street; thence eastwardly along the said line midway between Bleeker street and West Houston street to the intersection with a line midway between Sullivan street and Thompson street; thence southwardly along the said line midway between Sullivan street and Thompson street to the intersection with a line midway between West Houston street and Prince street; thence eastwardly along the said line midway between West Houston street and Prince street to the intersection with a line midway between Thompson street and West Broadway; thence southwardly along the said line midway between Thompson street and West Broadway to the intersection with a line midway between Prince street and Spring street; thence eastwardly along the said line midway between Prince street and Spring street to the intersection with a line midway between Wooster street and Greene street; thence southwardly along the said line midway between Wooster street and Greene street to the intersection with a line midway between Spring street and Broome street; thence eastwardly along the said line midway between Spring street and Broome street to the intersection with a line midway between Greene street and Mercer street; thence southwardly along the said line midway between Greene street and Mercer street and along the prolongation of the said line to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Lispenard street, the said distance being measured at right angles to Lispenard street; thence eastwardly along the said line parallel with Lispenard street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Church street and the westerly line of Broadway as these streets are laid out between Walker street and White street; thence southwardly along the said bisecting line to a point distant 100 feet southerly from the southerly line of Fulton street, the said distance being measured at right angles to Fulton street; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Fulton street and the prolongation thereof to the intersection with the bulkhead line of the North River; thence northwardly along the said bulkhead line to the intersection with the prolongation of a line midway between Leroy street and Clarkson street; thence eastwardly along the said line midway between Leroy street and Clarkson street and its prolongation to the intersection with a line bisecting the angle formed by the intersection of the prolongation of the easterly line of West street and the westerly line of Washington street as these streets are laid out between Morton street and Leroy street; thence northwardly along the said bisecting line to the intersection with a line midway between Christopher street and West 10th street; thence eastwardly along the said line midway between Christopher street and West 10th street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Washington street and the westerly line of Greenwich street as these streets are laid out between Perry street and Charles street; thence northwardly along the said bisecting line to the intersection with a line midway between Perry street and West 11th street; thence eastwardly along the said line midway between Perry street and West 11th street to a point distant 100 feet westerly from the westerly line of Hudson street, the said distance being measured at right angles to Hudson street; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Hudson street to the intersection with a line midway between Jane street and Horatio street; thence eastwardly along the said line midway between Jane street and Horatio street to the intersection with the prolongation of a line midway between 8th avenue and 9th avenue as these streets are laid out north of West 14th street; thence northwardly along the said line midway between 8th avenue and 9th avenue and along the prolongation of the said line to the intersection with a line midway between West 17th street and West 18th street; thence eastwardly along the said line midway between West 17th and West 18th streets to the intersection with a line midway between 7th avenue and 8th avenue; thence northwardly along the said line midway between 7th avenue and 8th avenue to the intersection with a line midway between West 42d street and West 43d street; thence eastwardly along the said line midway between West 42d street and West 43d street to the point or place of beginning, excluding therefrom the area described as District "A."

I have already referred to the value of the widening of Carmine street as a part of this plan, and believe it is unfortunate that this improvement is not included in the same proceeding as the extension of 7th avenue and the widening of Varick street. That it will ultimately be required, there is little doubt, and if 6th avenue is not relieved in this way, it may be done in a much more costly way by a direct extension southerly to an intersection with Varick street. It is estimated that the cost of widening Carmine street will only add about 8 per cent. to the cost of the improvement as proposed in the resolution of the Local Board, and even at this late date it would be advantageous to include it in this proceeding before the value of the property required

for the widening shall have increased, as it inevitably will, by the carrying out of the improvement under consideration.

While it is suggested that hearings be given upon all three plans, in my judgment Plan No. 3 would be the most advantageous. Respectfully,
NELSON P. LEWIS, Chief Engineer.

The President of the Borough of Manhattan then offered the following resolution: Whereas, The Board of Estimate and Apportionment is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the extension of 7th avenue, from its present southerly end to Carmine street; to the widening of Varick street, from Carmine street to Franklin street, and to the extension of Varick street, as widened, from Franklin street to West Broadway, Borough of Manhattan, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following are the proposed areas of assessment for benefit in this proceeding:

Plan No. 1.

District "A," upon which 10 per cent. of the entire cost and expense of this proceeding shall be assessed:

District "A."

Beginning at a point on the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of 7th avenue extension, the said distance being measured at right angles to the 7th avenue extension, where it is intersected by a line midway between West 11th street and West 12th street; and running thence southwardly along the said line parallel with 7th avenue extension to a point distant 100 feet easterly from the easterly line of Varick street, the said distance being measured at right angles to Varick street; thence southwardly and always distant 100 feet easterly from and parallel with the easterly line of Varick street and its prolongation to the intersection with the prolongation of a line midway between White street and Franklin street; thence eastwardly along the said line midway between White street and Franklin street and along the prolongation thereof to a point distant 100 feet easterly from the easterly line of West Broadway; thence southwardly and parallel with West Broadway to a point distant 100 feet southerly from the southerly line of Leonard street; thence westwardly and parallel with Leonard street to a point distant 100 feet westerly from the prolongation of the westerly line of Varick street as this street adjoins Leonard street, the said distance being measured at right angles to Varick street; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Varick street and the prolongation thereof to a point distant 100 feet westerly from the prolongation of the westerly line of 7th avenue extension; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of 7th avenue extension and its prolongations to the intersection with the prolongation of a line midway between West 11th street and West 12th street, as laid out east of 7th avenue; thence eastwardly along the said line midway between West 11th street and West 12th street and along the prolongation of the said line to the point or place of beginning.

District "B," upon which 40 per cent. of the entire cost and expense of this proceeding shall be assessed:

District "B."

Beginning at a point on a line midway between West 42d street and West 43d street, where it is intersected by a line midway between 6th avenue and 7th avenue, and running thence southwardly along the said line midway between 6th avenue and 7th avenue, to the intersection with a line midway between West 17th street and West 18th street; thence eastwardly along the said line midway between West 17th street and West 18th street to the intersection with a line midway between 5th avenue and 6th avenue; thence southwardly along the said line midway between 5th avenue and 6th avenue to the intersection with a line midway between West 8th street and West 9th street; thence eastwardly along the said line midway between West 8th street and West 9th street to the intersection with the prolongation of a line midway between McDougal street and Sullivan street; thence southwardly along the said line midway between McDougal street and Sullivan street and along the prolongation thereof to the intersection with a line midway between Bleecker street and West Houston street; thence eastwardly along the said line midway between Bleecker street and West Houston street to the intersection with a line midway between Sullivan street and Thompson street; thence southwardly along the said line midway between Sullivan street and Thompson street to the intersection with a line midway between West Houston street and Prince street; thence eastwardly along the said line midway between West Houston street and Prince street to the intersection with a line midway between Thompson street and West Broadway; thence southwardly along the said line midway between Thompson street and West Broadway to the intersection with a line midway between Prince street and Spring street; thence eastwardly along the said line midway between Prince street and Spring street to the intersection with a line midway between Wooster street and Greene street; thence southwardly along the said line midway between Wooster street and Greene street to the intersection with a line midway between Spring street and Broome street; thence eastwardly along the said line midway between Spring street and Broome street to the intersection with a line midway between Greene street and Mercer street; thence southwardly along the said line midway between Greene street and Mercer street and along the prolongation of the said line to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Lispenard street, the said distance being measured at right angles to Lispenard street; thence eastwardly along the said line parallel with Lispenard street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Church street and the westerly line of Broadway as these streets are laid out between Walker street and White street; thence southwardly along the said bisecting line to a point distant 100 feet southerly from the southerly line of Fulton street, the said distance being measured at right angles to Fulton street; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Fulton street and the prolongation thereof to the intersection with the bulkhead line of the North River; thence northwardly along the said bulkhead line to the intersection with the prolongation of a line midway between Leroy street and Clarkson street; thence eastwardly along the said line midway between Leroy street and Clarkson street and its prolongation to the intersection with a line bisecting the angle formed by the intersection of the prolongation of the easterly line of West street and the westerly line of Washington street as these streets are laid out between Morton street and Leroy street; thence northwardly along the said bisecting line to the intersection with a line midway between Christopher street and West 10th street; thence eastwardly along the said line midway between Christopher street and West 10th street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Washington street and the westerly line of Greenwich street as these streets are laid out between Perry street and Charles street; thence northwardly along the said bisecting line to the intersection with a line midway between Perry street and West 11th street; thence eastwardly along the said line midway between Perry street and West 11th street to a point distant 100 feet westerly from the westerly line of Hudson street, the said distance being measured at right angles to Hudson street; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Hudson street to the intersection with a line midway between Jane street and Horatio street; thence eastwardly along the said line midway between Jane street and Horatio street to the intersection with the prolongation of a line midway between 8th avenue and 9th avenue as these streets are laid out north of West 14th street; thence northwardly along the said line midway between 8th avenue and 9th avenue and along the prolongation of the said line to the intersection with a line midway between West 17th street and West 18th street; thence eastwardly along the said line midway between West 17th and West 18th streets to the intersection with a line midway between 7th avenue and 8th avenue; thence northwardly along the said line midway between 7th avenue and 8th avenue to the intersection with a line midway between West 42d street and West 43d street; thence eastwardly along the said line midway between West 42d street and West 43d street to the point or place of beginning, excluding therefrom the area described as District "A."

District "C," comprising the City at large, which is to bear 50 per cent. of the entire cost and expense of this proceeding; or

Plan No. 2.

District "A" (hereinbefore described), upon which 10 per cent. of the entire cost and expense of this proceeding shall be assessed.

District "B" (hereinbefore described), upon which 30 per cent. of the entire cost and expense of this proceeding shall be assessed.

District "C," comprising all of the Borough of Manhattan, which is to bear 30 per cent. of the entire cost and expense of this proceeding.

District "D," comprising the City at large, which is to bear 30 per cent. of the entire cost and expense of this proceeding; or

Plan No. 3.

District "A" (hereinbefore described), upon which 10 per cent. of the entire cost and expense of this proceeding shall be assessed.

District "B" (hereinbefore described), upon which 35 per cent. of the entire cost and expense of this proceeding shall be assessed.

District "C," comprising all of the Borough of Manhattan, which is to bear 43 per cent. of the entire cost and expense of this proceeding.

District "D," comprising all of the Borough of Brooklyn, which is to bear 9 per cent. of the entire cost and expense of this proceeding.

District "E," comprising all of the Borough of The Bronx, which is to bear 3 per cent. of the entire cost and expense of this proceeding.

Resolved, That this Board consider the proposed areas of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 19th day of September, 1912, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 19th day of September, 1912.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx and the Presidents of the Boroughs of Queens and Richmond—16.

DRAWINGS SHOWING THE BRIDGES DESIGNED TO CARRY WOODSIDE AVENUE, ROWAN AVENUE AND HYATT AVENUE OVER THE WOODSIDE-WINFIELD CUT-OFF ON THE LONG ISLAND RAILROAD, BOROUGH OF QUEENS.

The Secretary presented the following:

The Long Island Railroad Company, Office of the Chief Engineer, Jamaica, New York, May 6, 1912.

JOSEPH HAAG, Secretary, Board of Estimate, 277 Broadway, New York City, N. Y.:

Dear Sir—Referring to the 3d paragraph of the Mutual Covenants of Agreement between The City of New York and the L. I. R. Co., executed July 21, 1911, and providing for the elimination of certain grade crossings in the Borough of Queens, I beg to forward herewith, with the request for approval, original tracing of our Drawing No. 1, Bridge G-33; Drawing No. 1, Bridge G-34, and Drawing No. 1, Bridge G-35, covering respectively structures proposed to carry Woodside avenue, Rowan avenue and Hyatt avenue over the so-called Woodside-Winfield cut-off of the L. I. R. R.

The above plans show the general arrangement of structural steel, street grades, etc. for the several structures. Yours truly,

LONG ISLAND RAILROAD COMPANY,

J. R. SAVAGE, Chief Engineer.

The Long Island Railroad Company, Office of the Chief Engineer, Jamaica, New York, June 11, 1912.

Mr. JOS. HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—Referring to the third paragraph of the mutual covenants of the agreement between The City of New York and the Long Island Railroad Company, executed July 21, 1911, which provided for the elimination of certain grade crossings in the Borough of Queens, I beg to forward herewith, with request for approval, original tracings of the following drawings:

Woodside Avenue Bridge, drawings Nos. 2 and 3, Bridge G-33, covering details of steel and masonry respectively.

Rowan Avenue Bridge, drawings Nos. 2 and 3, Bridge G-34, showing respectively plans and details of masonry and details of steel.

Hyatt Avenue Bridge, drawings Nos. 2 and 3, Bridge G-35, showing respectively plans and details of masonry and details of steel.

The general plans for these three structures were sent you with my letter of May 6, 1912. Yours truly,

J. R. SAVAGE, Chief Engineer.

The Long Island Railroad Company, General Office, Pennsylvania Station, New York, July 12, 1912.

NELSON P. LEWIS, Esq., Chief Engineer, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—Pursuant to the suggestion of our Mr. J. R. Savage, Chief Engineer, I beg to enclose herewith stipulation by the Long Island Railroad Company as to increase in the future of the sidewalk widths shown on plans for proposed bridges over Woodside avenue, Rowan avenue and Hyatt avenue, Woodside-Winfield cut-off. I trust that the enclosed stipulation is in form satisfactory to you, and would thank you to acknowledge receipt of the enclosed and advise me if the same is in form satisfactory to you. Very truly yours,

JOSEPH P. KEANY, Attorney.

Whereas, The Long Island Railroad Company, on or about May 6, 1912, submitted, for approval, to the Board of Estimate and Apportionment of The City of New York certain detailed drawings or plans covering, among other things, the three bridges to be erected for carrying highway traffic over said railroad company's right of way and tracks on the so-called "Woodside-Winfield Cut-off," in the Borough of Queens, which said plans are entitled as follows:

"L. I. R. R. Co.—Woodside-Winfield Cut-off, Woodside Avenue Bridge, General Plan, Bridge No. G-33, Drawing No. 1, Jamaica, New York, November 16, 1911.

"L. I. R. R. Co.—Woodside-Winfield Cut-off, Rowan Avenue Bridge, General Plan, Bridge No. G-34, Drawing No. 1, Jamaica, New York, November 16, 1911.

"L. I. R. R. Co.—Woodside-Winfield Cut-off, Hyatt Avenue Bridge, General Plan, Bridge No. G-35, Drawing No. 1, Jamaica, New York, November 11, 1911."

—and

Whereas, Said plans, while retaining the full roadway on the said proposed bridges, provide for a narrowed sidewalk space, as shown thereon; and

Whereas, The railroad company is informed that the said plans, showing narrow sidewalk widths, are acceptable to the Chief Engineer of said Board of Estimate and Apportionment for the present construction, provided said Company will stipulate to increase the sidewalk widths as shown on said plans to the full sidewalk widths, at such future time as the proper City authorities may determine the full sidewalk widths at said locations, or any of them, to be reasonably necessary.

Now, therefore, the Long Island Railroad Company hereby stipulates and agrees that if the aforesaid plans are now approved in their present form by said Board of Estimate and Apportionment, it will increase the sidewalk widths, as shown thereon to the full sidewalk widths, if, and when, at any future time the proper authorities of The City of New York shall determine the full sidewalk widths to be reasonably necessary at any or all of the locations shown on said plans.

Dated New York, July 11, 1912.

THE LONG ISLAND RAILROAD COMPANY,

By RALPH PETERS, President.

Report No. 11334.

July 13, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—In accordance with the provisions of the agreement of July 21, 1911, between The City of New York and the Long Island Railroad Company, the railroad company has, under date of May 6 and June 11, 1912, through its Chief Engineer, Mr. J. R. Savage, presented for the consideration of the Board drawings showing the bridges which it has designed to carry Woodside avenue, Rowan avenue and Hyatt avenue over the Woodside-Winfield Cut-off, in the Borough of Queens.

Woodside avenue and Hyatt avenue have been given a width of 80 feet and Rowan avenue one of 60 feet. Woodside avenue crosses the railroad at an angle of a little over 25 degrees and the two remaining streets at about 48 degrees, the railroad here comprising six tracks.

The bridges will all have concrete abutments at the railroad right of way, with two intermediate reinforced concrete piers, which will serve both as a support for the floor system and as a curtain wall between tracks. The floor will be of rein-

forced concrete, supported on a grillage of I-beams at right angles to the railroad centre line and framing into a girder on each side paralleling the street axis. In each case a bracket will be provided on one side outside of the sidewalk space to support such pipes as it may be necessary to carry over the railroad.

In the case of Woodside avenue, provision is made for carrying a double track trolley railroad, and electric conduits will be installed under one of the sidewalks.

The drawings indicate that the roadways will be made to conform with the requirements of the general ordinance, but that the sidewalk widths are restricted as follows:

Woodside avenue, 13 feet instead of 18 feet; Rowan avenue, 10 feet instead of 15 feet; Hyatt avenue, 13 feet instead of 18 feet.

It is probable that the lesser sidewalk will be adequate for all requirements of the immediate future, but it may ultimately be necessary to provide the full width contemplated under the ordinance. In recognition of such possible contingency the railroad company, through its attorney, Mr. Joseph F. Keany, has, in a communication dated July 12, 1912, which is herewith transmitted, stipulated that it will, at any time when the City authorities may deem such additional facilities necessary, amplify the structure as now contemplated so as to cover the entire street width. In this connection it should be pointed out that such a bridge seems to be required under the contract.

The drawings have been approved by the Borough President. They indicate a suitable type of construction, and in view of the stipulation referred to can properly be accorded favorable consideration by the Board, such action being recommended.

Respectfully,
NELSON P. LEWIS, Chief Engineer.

The following resolution was then adopted:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in accordance with the provisions of the agreement of July 21, 1911, between The City of New York and the Long Island Railroad Company, hereby approves the plans submitted by the said railroad company on May 6, 1912, and June 11, 1912, showing the following bridges over the Woodside-Winfield Cut-off of the Long Island Railroad, in the Borough of Queens:

Drawings Nos. 1, 2 and 3, relating to Bridge No. G-33, at Woodside avenue;

Drawings Nos. 1, 2 and 3, relating to Bridge No. G-34, at Rowan avenue;

Drawings Nos. 1, 2 and 3, relating to Bridge No. G-35, at Hyatt avenue.

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

PAVING AND CURBING ALBEMARLE ROAD, FROM EAST 3d STREET TO EAST 5th STREET,
BOROUGH OF BROOKLYN.
(Preliminary Authorization.)

The following resolution of the Local Board of the Flatbush District, Borough of Brooklyn, and report of the Chief Engineer were presented:

In the Local Board of the Flatbush District.

Whereas, A petition for a local improvement, to wit:

To amend resolution of May 20, 1912, initiating proceedings to set cement curb where necessary and lay an asphalt pavement on Albemarle road, from East 3d street to East 5th street, by providing for a preliminary or permanent asphalt pavement,

—has been received by the President of the Borough of Brooklyn; and

Whereas, He has appointed a time for a meeting of this Local Board, at which meeting the said petition would be submitted by him to the said Local Board; and

Whereas, The said petition was duly submitted thereafter to the said Local Board; now therefore it is

Resolved, That the Local Board of the Flatbush District hereby amends resolution of May 20, 1912, initiating proceedings to set cement curb where necessary and lay an asphalt pavement on Albemarle road, from East 3d street to East 5th street, by providing for a preliminary asphalt pavement on a 4-inch concrete foundation, so as to make the amended resolution read as follows:

"To set cement curb where necessary and lay a preliminary asphalt pavement on a 4-inch concrete foundation on Albemarle road, from East 3d street to East 5th street,"

—and it is hereby

Resolved, That a copy of this resolution be transmitted forthwith to the Board of Estimate and Apportionment for approval.

Adopted by the Local Board of the Flatbush District June 20, 1912, Commissioners Pounds and Aldermen Bosse, Esterbrook and Morrison voting in favor thereof. Attest: REUBEN L. HASKELL, Secretary.

Approved on July 5, 1912.

ALFRED E. STEERS, President, Borough of Brooklyn.

Report No. 11332.

July 12, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution of the Local Board of the Flatbush District, Borough of Brooklyn, adopted on June 20, 1912, initiating proceedings for paving with asphalt (preliminary pavement), and curbing where necessary, Albemarle road, from East 3d street to East 5th street.

This resolution affects two blocks, or about 500 feet, of Albemarle road, which the Corporation Counsel has advised is dedicated to public use. The street is graded and flagged, the greater portion of the curbing has been provided, and the abutting property is partially improved. All of the subsurface construction has been completed.

The work is estimated to cost about \$5,400, and the assessed valuation of the land to be benefited is \$158,800.

In my judgment the resolution is a proper one, and I would recommend that the Borough President be authorized to have the work performed which is required prior to placing the improvement under contract. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was then adopted:

Whereas, The President of the Borough of Brooklyn has transmitted to the Board of Estimate and Apportionment a copy of a resolution of the Local Board of the Flatbush District, duly adopted by said Board on the 20th day of June, 1912, and approved by the President of the Borough of Brooklyn on the 5th day of July, 1912, as follows, to wit:

"Resolved, That the Local Board of the Flatbush District hereby amends resolution of May 20, 1912, initiating proceedings to set cement curb where necessary and lay an asphalt pavement on Albemarle road, from East 3d street to East 5th street, by providing for a preliminary asphalt pavement on a 4-inch concrete foundation, so as to make the amended resolution read as follows:

"To set cement curb where necessary and lay a preliminary asphalt pavement on a 4-inch concrete foundation on Albemarle road, from East 3d street to East 5th street,"

—and which resolution is accompanied with an approximate estimate of the cost of the work and the assessed value of the property benefited.

Resolved, That the Board of Estimate and Apportionment hereby authorizes the President of the Borough of Brooklyn to prepare plans, specifications and an estimate of cost based on actual survey, and also to secure a determination of the boundary of the district of assessment; the entire expense of the work done subsequent to the date of this authorization to be charged against the Street Improvement Fund and later included in the assessment.

Resolved, That the Board of Estimate and Apportionment will consider the authorization of the construction of the said proposed improvement after the President of the Borough of Brooklyn has submitted a statement showing that all of the above described work has been done, that he has secured the approval of the form of contract by the Corporation Counsel, that he is prepared to place the improvement under contract as soon as he receives the consent of the Board, and that the assessment map will be completed on or before the date of payment on acceptance; this report being accompanied by a further statement showing the quantity of work to be performed under each item and the unit price thereof, the expense incurred for preliminary work, the allowance to be made for additional engineering and contingencies, the total probable cost and the number of working days to be allowed the contractor for carrying out the work.

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

PAVING AND CURBING ALBEMARLE ROAD, FROM EAST 3d STREET TO EAST 5th STREET,
BOROUGH OF BROOKLYN.
(Final Authorization.)

The following report of the Chief Engineer was presented:

Report No. 11333.

July 13, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the President of the Borough of Brooklyn advising that all of the conditions which it is the practice of the Board to impose prior to the final authorization of local improvements have been complied with in the matter of the following:

Paving with asphalt (preliminary pavement) and curbing where necessary Albemarle road, from East 3d street to East 5th street.

The Borough President states that the time to be allowed for the completion of the improvement is 25 days, and that no charges have been made against the Street Improvement Fund.

The work to be done comprises the following: 2,650 square yards asphalt pavement, 150 linear feet cement curb.

The cost of the improvement is estimated to be \$5,300.

A report recommending the preliminary authorization of this improvement has already been prepared and is now before the Board for consideration. Assuming that it will meet with approval, there seems to be no reason to prevent the final authorization now requested, and such action is recommended. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was then adopted:

A copy of a resolution of the Local Board of the Flatbush District, duly adopted by said Board on the 20th day of June, 1912, and approved by the President of the Borough of Brooklyn on the 5th day of July, 1912, having been transmitted to the Board of Estimate and Apportionment, as follows, to wit:

"Resolved, That the Local Board of the Flatbush District hereby amends resolution of May 20, 1912, initiating proceedings to set cement curb where necessary and lay an asphalt pavement on Albemarle road, from East 3d street to East 5th street, by providing for a preliminary asphalt pavement on a 4-inch concrete foundation, so as to make the amended resolution read as follows:

"To set cement curb where necessary and lay a preliminary asphalt pavement on a 4-inch concrete foundation, on Albemarle road, from East 3d street to East 5th street,"

—and thereupon on the 15th day of July, 1912, resolutions having been adopted by the Board of Estimate and Apportionment authorizing the President of the Borough of Brooklyn to prepare the necessary plans, specifications and an estimate of the cost of the proposed improvement based on actual survey and further resolving that the Board of Estimate and Apportionment will consider the authorization of the construction of the proposed improvement after the President of the Borough of Brooklyn had submitted certain statements as provided in the said resolution, and the said resolution having been duly complied with by the President of the Borough of Brooklyn, as appears by papers and documents on the files of the Board of Estimate and Apportionment, and there having been presented to the Board of Estimate and Apportionment an estimate in writing in such detail as the Board has directed that the cost of the proposed work or improvement, together with the preliminary expenses, will be the sum of \$5,300, and a statement of the assessed value according to the last preceding tax roll of the real estate included within the probable area of assessment, to wit, the sum of \$158,800, having also been presented, it is

Resolved, That the said resolution of the Local Board be and the same is hereby approved and the construction of the local improvement therein provided for is hereby authorized. This Board does hereby determine that no portion of the cost and expense thereof shall be borne and paid by The City of New York, but that the whole of such cost and expense, including the aforesaid preliminary expenses, shall be assessed upon the property deemed to be benefited by the said local improvement.

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

RULE MAP, DAMAGE MAP AND PROFILE IN THE PROCEEDING FOR ACQUIRING TITLE TO THE FOLLOWING STREETS: ROOSEVELT AVENUE, FROM WOODSIDE AVENUE TO WATEREDGE AVENUE; PUBLIC PLACE, BOUNDED BY ROOSEVELT AVENUE, ELMHURST AVENUE AND CASE STREET; PUBLIC PLACE, AT THE INTERSECTION OF ROOSEVELT AVENUE WITH LOUONA AVENUE; TRIANGULAR AREA, BOUNDED BY ROOSEVELT AVENUE, THE EASTERLY LINE OF VAUX STREET AND WOODSIDE AVENUE; TRIANGULAR AREA, BOUNDED BY ROOSEVELT AVENUE, THE EASTERLY LINE OF WARNER AVENUE AND THE SOUTHERLY LINE OF ASKE STREET; SACKETT STREET, FROM ROOSEVELT AVENUE TO 42d STREET; LOUONA AVENUE, WHERE IT ADJOINS THE PUBLIC PLACE AT ROOSEVELT AVENUE, BOROUGH OF QUEENS.

The President of the Borough of Queens asked and obtained unanimous consent for the present consideration of this matter, and presented the following:

Report No. 11335.

July 15, 1912.

Hon. WILLIAM J. GAYNOR, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary of the Borough of Queens, bearing date of July 5, 1912, presenting for consideration the rule map, damage map and profile prepared for the court record and for the use of the Commissioners of Estimate and Assessment to be appointed in the proceeding for acquiring title to the following streets:

Roosevelt avenue, from Woodside avenue to Wateredge avenue; public place, bounded by Roosevelt avenue, Elmhurst avenue and Case street; public place, at the intersection of Roosevelt avenue with Louona avenue; triangular area, bounded by Roosevelt avenue, the easterly line of Vaux street and Woodside avenue; triangular area, bounded by Roosevelt avenue, the easterly line of Warner avenue and the southerly line of Aske street; Sackett street, from Roosevelt avenue to 42d street; Louona avenue, where it adjoins the public place at Roosevelt avenue.

This proceeding was instituted by the Board of Estimate and Apportionment on November 29, 1911, and was amended to conform with recent map changes on June 13, 1912.

The maps now presented correspond in dimensions with the plan under which the streets were laid out, and indicate that the proceeding affects an area of 1,579,934.2 square feet.

Roosevelt avenue traverses territory in which the land is generally unsubdivided, but in certain sections where it crosses old developments the abutting property is partially improved. Seventy-four buildings, together with porches, steps and fences, encroach upon the land to be acquired.

Portions of the streets are shown on maps filed by the property owners between December 20, 1856, and August 25, 1911, and also upon a number of property maps not filed.

I would recommend the approval of the maps, and that after certification they be forwarded to the Corporation Counsel. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The President of the Borough of Queens then offered the following resolution:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby approves the rule map, damage map and profile, submitted by the President of the Borough of Queens, to be used in the proceeding instituted by said Board on November 29, 1911, for acquiring title to Roosevelt avenue, from Woodside avenue to Wateredge avenue; the public place, bounded by Roosevelt avenue, Elmhurst avenue and Case street; the public place, at the intersection of Roosevelt avenue with Louona avenue; the triangular area, bounded by Roosevelt avenue, the easterly line of Vaux street and Woodside avenue; the triangular area, bounded by Roosevelt avenue, the easterly line of Warner avenue and the southerly line of Aske street; Sackett street, from Roosevelt avenue to 42d street; and Louona avenue where it adjoins the public place at Roosevelt avenue, Borough of Queens, which proceeding was amended on June 13, 1912, so as to conform with certain changes in the lines of Roosevelt avenue and Louona avenue, which became effective on the latter date.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

ACQUIRING TITLE TO THE PUBLIC PARK BOUNDED BY BARCLAY STREET, HOYT AVENUE, THE EAST RIVER AND DITMAS AVENUE, BOROUGH OF QUEENS.

The President of the Borough of Queens asked and obtained unanimous consent for the present consideration of this matter, and presented the following:

Earle & Russell, 55 Liberty Street, New York, July 12, 1912.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—As attorneys for the Woodward Brown Realty Company, the owner of the property known as East River Park, Borough of Queens, and at the request of our said client, we do stipulate on its behalf to waive any right to compensation for the value of any and all buildings upon their said property, in the event that your Honorable Board, at its meeting on Monday, the 15th inst., takes such action as will vest immediately the title to the property in the City for park purposes, and upon the same condition we now renew our stipulation heretofore filed with your Board, in behalf of our client, and upon its authority, that there may be set off in the City's favor against any award made to our client the sum heretofore paid as costs and disbursements in favor of the former owner in the condemnation proceeding heretofore commenced, and abandoned in the year 1907. Yours respectfully,

EARLE & RUSSELL.

The President of the Borough of Queens then offered the following resolution: Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for a public park (East River Park), bounded by Barclay street Hoyt avenue, the bulkhead line of the East River and Ditmars avenue, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands and premises required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding; be it

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following are the proposed areas of assessment for benefit in this proceeding:

I. The entire cost and expense to be borne and paid by The City of New York; or
II. Fifty per cent. of the cost and expense to be borne and paid by The City of New York and the remaining 50 per cent. to be borne and paid by the Borough of Queens; or

III. One-third of the cost and expense to be borne and paid by The City of New York, one-third by the Borough of Manhattan and one-third by the Borough of Queens; or

IV. (A) Local area of assessment to bear 40 per cent. of the cost of the proceeding and to comprise the following territory:

Beginning at a point on the westerly bulkhead line of Steinway Creek where it is intersected by the prolongation of a line midway between 4th avenue and 6th avenue, and running thence southwestwardly along the said line midway between 4th avenue and 6th avenue and along the prolongation of the said line to the intersection with a line midway between Wolcott avenue and Winthrop avenue; thence southeastwardly along the said line midway between Wolcott avenue and Winthrop avenue to the intersection with a line midway between 7th avenue and 8th avenue; thence southwestwardly along the said line midway between 7th avenue and 8th avenue to the intersection with a line midway between Wolcott avenue and Ditmars avenue; thence southeastwardly along the said line midway between Wolcott avenue and Ditmars avenue to a point midway between 8th avenue and 9th avenue; thence southwestwardly along a line always midway between 8th avenue and 9th avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northerly line of Van Deventer avenue and the southerly line of Flushing avenue as these streets are laid out between 7th avenue and 8th avenue; thence westwardly along the said bisecting line to the intersection with a line midway between 5th avenue and 6th avenue; thence southwardly along the said line midway between 5th avenue and 6th avenue to the intersection with a line midway between Van Deventer avenue and Grand avenue; thence westwardly along the said line midway between Van Deventer avenue and Grand avenue to the intersection with the prolongation of a line midway between 3d avenue and 4th avenue; thence southwardly along the said line midway between 3d avenue and 4th avenue, and along the prolongation of the said line to the intersection with a line midway between Grand avenue and Jamaica avenue; thence westwardly along the said line midway between Grand avenue and Jamaica avenue to the intersection with a line midway between 1st avenue and Academy street; thence southwardly along the said line midway between 1st avenue and Academy street to the intersection with the prolongation of a line midway between Lincoln street and Camelia street; thence westwardly along the said line midway between Lincoln street and Camelia street, and along the prolongation of the said line, to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Ely avenue and the westerly line of Crescent street as these streets are laid out between Broadway and Camelia street; thence southwardly along the said bisecting line to the intersection with a line midway between Broadway and Ridge street; thence westwardly along the said line midway between Broadway and Ridge street and along the prolongation of the said line to the intersection with the bulkhead line of the East River; thence generally northeastwardly along the bulkhead lines of the East River, Berriens Creek and of Steinway Creek to the point or place of beginning.

(B) Assessment Area "B" to bear 60 per cent. of the cost of the proceeding, and to comprise the entire Borough of Queens; or

V. (A) Local area of assessment to bear 40 per cent. of the cost and expense of the proceeding and to comprise the following territory:

Beginning at a point on the westerly bulkhead line of Steinway Creek where it is intersected by the prolongation of a line midway between 4th avenue and 6th avenue, and running thence southwestwardly along the said line midway between 4th avenue and 6th avenue and along the prolongation of the said line to the intersection with a line midway between Wolcott avenue and Winthrop avenue; thence southeastwardly along the said line midway between Wolcott avenue and Winthrop avenue to the intersection with a line midway between 7th avenue and 8th avenue; thence southwestwardly along the said line midway between 7th avenue and 8th avenue to the intersection with a line midway between Wolcott avenue and Ditmars avenue; thence southeastwardly along the said line midway between Wolcott avenue and Ditmars avenue to a point midway between 8th avenue and 9th avenue; thence southwestwardly along a line always midway between 8th avenue and 9th avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northerly line of Van Deventer avenue and the southerly line of Flushing avenue as these streets are laid out between 7th avenue and 8th avenue; thence westwardly along the said bisecting line to the intersection with a line midway between 5th avenue and 6th avenue; thence southwardly along the said line midway between 5th avenue and 6th avenue to the intersection with a line midway between Van Deventer avenue and Grand avenue; thence westwardly along the said line midway between Van Deventer avenue and Grand avenue to the intersection with the prolongation of a line midway between 3d avenue and 4th avenue; thence southwardly along the said line midway between 3d avenue and 4th avenue, and along the prolongation of the said line to the intersection with a line midway between Grand avenue and Jamaica avenue; thence westwardly along the said line midway between Grand avenue and Jamaica avenue to the intersection with a line midway between 1st avenue and Academy street; thence southwardly along the said line midway between 1st avenue and Academy street to the intersection with the prolongation of a line midway between Lincoln street and Camelia street; thence westwardly along the said line midway between Lincoln street and Camelia street, and along the prolongation of the said line, to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Ely avenue and the westerly line of Crescent street as these streets are laid out between Broadway and Camelia street; thence southwardly along the said bisecting line to the intersection with a line midway between Broadway and Ridge street; thence westwardly along the said line midway between Broadway and Ridge street and along the prolongation of the said line to the intersection with the bulkhead line of the East River; thence generally northeastwardly along the bulkhead lines of the East River, Berriens Creek and of Steinway Creek to the point or place of beginning.

(B) Assessment Area "B" to bear 60 per cent. of the cost of the proceeding, and to comprise the entire City of New York.

Resolved, That this Board consider the proposed areas of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 19th day of September, 1912, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 19th day of September, 1912.

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 Manhattan and Brooklyn, the Acting President of the Borough of The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

SUPPLEMENTAL AGREEMENT BETWEEN THE CITY OF NEW YORK AND THE VILLAGE OF MOUNT KISCO, IN PURSUANCE OF THE PROVISIONS OF CHAPTER 428 OF THE LAWS OF 1907.

The President of the Borough of Manhattan asked and obtained unanimous consent for the present consideration of this matter and presented the following:

The City of New York, Department of Water Supply, Gas and Electricity, 21 Park Row, New York, July 15, 1912.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, Manhattan:

Dear Sir—I enclose herewith petition from Mr. Harrison T. Slosson, as attorney for the Village of Mt. Kisco, requesting certain changes in the agreement entered into between the village and The City of New York on January 2, 1908, and report of the Chief Engineer of the Department recommending said changes.

I endorse the recommendations and would request the approval of same, so that the work of repairs may be rapidly completed and the sources of pollution at Mt. Kisco eliminated. Yours truly,

HENRY S. THOMPSON, Commissioner.

July 15, 1912.

Hon. HENRY S. THOMPSON, Commissioner, Department of Water Supply, Gas and Electricity, 13 Park Row, Manhattan:

My Dear Sir—As attorney for the Trustees of the Village of Mt. Kisco I beg to advise that heretofore we employed Mr. George W. Fuller, Engineer of this city, to examine the sewer system of our village, and to make his report as to what would be necessary to complete the same at the earliest possible moment.

Annexed hereto is the report of Mr. Fuller, dated July 12, 1912. On the eighth page of this report Mr. Fuller states that in his judgment it is not necessary that the 18-inch pipe should be laid at a slope of 2 feet per thousand, but that if it were laid with a slope of 1.1 feet it would have a velocity sufficient to prevent objectionable deposit and be of sufficient capacity, and also that the work could be more expeditiously forwarded.

The agreement made between The City of New York and the Village of Mt. Kisco on the 2d day of January, 1908, provided that the 18-inch sewer should have a slope of 2 feet per thousand. On behalf of the Trustees of the Village, I would respectfully ask you, upon the report of Mr. Fuller, to recommend the amendment of the contract so as to provide for a slope of 1.1 feet per thousand instead of 2 feet per thousand; also that for a part of its length the sewer may be built of wood stave pipe, if it be deemed so advisable in the interests of economy and water tightness, and that if agreeable to you, your approval be submitted to the Board of Estimate and Apportionment for affirmative action. Very truly yours,

HARRISON T. SLOSSON.

City of New York, Department of Water Supply, Gas and Electricity, Engineering Bureau, 21 Park Row, New York, July 15, 1912.

Hon. HENRY S. THOMPSON, Commissioner:

Dear Sir—I return herewith letter addressed to you by Mr. Harrison T. Slosson, attorney, in behalf of the Village of Mt. Kisco, requesting permission to make certain changes in the agreement between that village and The City of New York, under date of January 2, 1908, for the construction of sewers.

I am of the opinion that the changes requested in that communication may be properly granted, especially as the construction of a part of the sewer with cressed wood stave pipe would be economical as compared with cast iron or terra cotta pipe, and the Village of Mt. Kisco has, as I understand, already spent some \$13,000 in effectually trying to make repairs that would reduce the leakage to the minimum prescribed under the agreement, i. e., 5 gallons per foot of pipe per 24 hours.

Respectfully, I. M. deVARONA, Chief Engineer.

George W. Fuller, Consulting Hydraulic Engineer and Sanitary Expert, 170 Broadway, New York, July 12, 1912.

To the Mayor and Village Trustees, Mount Kisco, N. Y.:

Gentlemen—In accordance with our proposition of May 3, addressed to Mr. H. T. Slosson, village attorney, the terms of which were accepted by resolution of the Board of Trustees on May 20, 1912, we beg to report our findings as to the three intercepting or outfall sewers of the village as follows:

The first step of the investigation was that of obtaining permission from The City of New York to make use of their pumping equipment for delivering the flow of these sewers to the disposal works. Such permission was obtained from Commissioner Thompson of the Department of Water Supply, Gas and Electricity on June 10, and the pumps were started on June 14. On June 15 our Mr. Nabstedt, assisted by men employed by the village, started the investigation on which he was engaged at Mount Kisco until July 3. Our Mr. Harding also made several trips to Mount Kisco and went over the work with Mr. Nabstedt. The investigation proceeded along the following general lines.

The sewage pumps at the city station were operated for the purpose of removing water from the sewers and of lowering the ground water outside the sewer to a constant level. Weirs were then placed in a number of the manholes on each of the three sewer lines leading to the station; soundings were taken to determine the character of the foundations, and test pits were dug to find out the present condition of the sewer at different points. Appended to this report is a sketch plan showing the location of the three intercepting sewers and the measurements of flow at different points in them.

Pumping.

During the first few days of operation it was necessary to run both pumps in handling the ground water which leaked into the sewers, and it was only after 15 days of operation that the flow became small enough so that one pump would handle it. Pumping was continued until such a time as the flow through the sewer was at a practically constant rate in all three intercepting sewers. The pumping records ranged from the full capacity of both pumps, about 900,000 gallons per day, to about 460,000 gallons per 24 hours at the end of the test. The contract with the City provides that this flow shall not exceed 334,000 gallons, equal to 5 gallons per foot per 24 hours.

Weir Readings.

As soon as possible after the water in the sewers was sufficiently lowered weirs were placed on all three interceptors. There were so placed nine on the 18-inch line, two on the 12-inch line running to Main street, and five on the 12-inch line running to Lexington avenue. The location of the different weirs is shown by numbers on the sketch plan. Measurements were taken daily and the results of each day's readings are given in the following table:

Infiltration Per Day Into Sewers.

Line.	Between Measured Manholes.	at.	Distance, in Feet.	Leakage, Gallons Per Day.	Leakage, Per Foot.
B-A	1-4	Meter	1,250	22,000	17.6
B-A	4-6	4	750	18,000	24
B-A	6-10	6	1,250	86,000	68.8
B-A	10-11	10	480	7,000	14.6
B-A	11-12	11	430	34,000	78.5
B-A	12-13	12	344	34,000	98.8
B-A	13-16	13	970	32,000	32.8
B-A	16-18	16	850	9,000	10.6
B-A	18-20	18	1,030	50,000	48.3
B-A	20-22	20	830	18,000	21.8
Total				310,000	

Line.	Between Manholes.	Measured at.	Distance, in Feet.	Leakage, Gallons, Per Day.	Leakage, Per Foot.
B-D	Sump No. 1	..	15	25,000	....
B-D	1-4	1	1,350	19,000	14.1
B-D	4-6	4	930	6,000	6.5
B-D	6-9	6	1,330	24,000	18
B-D	9-11	9	950	30,000	31.6
B-D	11-D	11	800	8,000	10
Total				112,000	
B-C	1-3	1	1,020	30,000	29.4
B-C	3-4	3	350	14,000	40
B-C	4-6	4	930	8,000	8.6
Total				52,000	
Total for three lines, 475,000, as shown on Venturi meter.					

From the weir readings we figured the leakage per day per foot of sewer on different stretches between manholes as shown in the last column of the table.

The records show that on the 18-inch line the lowest observed leakage was 10.8 gallons per running foot per day.

This was at the upper end of the sewer, where the head of water on the outside of the pipe was less than at other places. The greatest leakage, 98.8 gallons per running foot per day, was between Lexington avenue and Main street. The average leakage on this line was about 38 gallons per running foot. The total leakage, as shown by the reading at the pumping station, was 310,000 gallons daily.

On the 12-inch line running from Main street the average leakage was 23 gallons per foot daily. On the 12-inch line running from Lexington avenue the average leakage was about 21 gallons per foot per 24 hours. Part of the leakage in this last line, some 25,000 gallons, comes from one leak near the pumping station. On the line from Main street there is a low manhole 100 yards north of where the road to the pumping station enters Main street where, during storms, the surface water runs directly into the sewer. On all of these lines it will be necessary to raise the manholes so that their tops will be well above high water on the meadows.

Location of Needed Repairs.

From the readings taken at the various weirs we have endeavored to determine what parts of the three sewer lines it will be necessary to repair and what places it will be possible to leave as they now are. On the 12-inch line to Main street (line B-C) the total leakage is 52,000 gallons per day, 30,000 gallons of which comes in between the pumping station and manhole No. 3, a distance of 1,020 feet. The leakage at manhole No. 3 is 22,000 gallons per 24 hours, 60 per cent. of which, or 13,200 gallons, we believe comes in between manholes 3 and 4. We recommend relaying all of this line between the pumping station and manhole No. 4. That part of the line between manholes 1 and 2 crosses beneath the brook and considerable of it is in very wet ground. Four hundred feet of this distance should be relaid with cast-iron pipe with lead joints, and it may be necessary to put in a pile foundation under part of this. The rest can be repaired as it lies, using instead of cement mortar a special flexible "joint compound" in and around the joints. The manholes must all be raised, and manhole No. 7 must be rebuilt to exclude the storm water which now gets into it.

On the line leading to Lexington avenue (line B-D) we find there is about 25,000 gallons leakage per day in a few joints between the pumping station and the first manhole, a distance of about 15 feet. This must be dug up and repaired. The leakage between manhole No. 1 and No. 4 is about 20,000 gallons, and this must also be repaired the entire distance. Between manholes 4 and 6 there is apparently but 6,000 gallons of leakage, and this we believe, can be left as it is. Between manholes Nos. 6 and 11 there is a total of 54,000 gallons of water leaking into the sewer. This need not be repaired for its entire length. About one-fourth of it can be left as it now is. Some of this leakage, estimated at 15,000 gallons daily, comes in from the two lateral sewers on Lexington avenue. These should be repaired in part.

On the 18-inch line (line B-A) we recommend that the sewer for a distance of 7,530 feet be repaired. It will not be necessary to repair the line for about 600 feet between manholes Nos. 19 and 20.

Soundings.

Soundings were taken at 100-foot intervals along the line of each of the three interceptors. On the 18-inch line there is a layer of muck varying in depth from 3 to 15 feet practically all the way from the pumping station to Main street. There is also some muck between manhole No. 16 and North Bedford avenue. Below this muck there is generally fine sand and in some places sand and gravel, which are as high as the bottom of the sewer between its upper end and North Bedford avenue between manholes Nos. 16 and 8, and for a small stretch north of the railroad track. At all places water was encountered a short distance below the surface of the ground. At the upper end of the sewer low-water level in the brook is about 2 feet higher than the invert of the sewer, and at the pumping station it is some 9 feet higher than the invert of the sewer.

On each of the 12-inch lines the foundation is firmer than on the 18-inch. Sand and gravel which would provide a reasonably good foundation for the sewer is obtained at practically all places. Both of these sewers are from 1 to 8 feet below low-water level in the Kisco River.

Test Pits.

Test pits were dug in four places, as shown on the sketch. In test pit No. 1 black muck was encountered to a depth of 8 to 10 feet, which was as deep as it was thought necessary to go. Test pits Nos. 2 and 3 were located on pipe repaired last year by Mr. Heller. So far as could be determined the joints were tight, and there had been no settlement at this place. Test pit No. 4 was on the pipe line at a point which had not been repaired, and it was evident that the joints at the bottom were either poorly made, or that the cement had been washed from the mortar joint before it had "set." Leakage was apparent.

Settlements and Leaks.

To a considerable extent the ground water has leaked into the sewers because of poor jointing, presumably at the lower portion of the joint. This is not the whole story, however, because the character of the material in which these sewer lines are built is not such as to resist settlement due to the weight of pipe and the material about it. Where settling has occurred it is doubtless true that the condition of the pipe has become worse due to poor joints. Mortar joints are rigid and do not readily adjust to unequal strains put upon them. When a leak occurs, it frequently happens that fine material from beneath the pipe may wash into the sewer through small openings at the joint. In this way a hole is created below the pipe, which permits still further settlement, and this in turn aggravates the leakage, not only at the immediate joint that is principally involved, but it also produces a strain on the joints on either side of the point where the main settlement occurs. This statement is made partly in explanation of our understanding of conditions that have to be dealt with, and partly as a preface to the statement that we do not consider it prudent to attempt to make all these lines tight with ordinary tile pipes and mortar joints. It is possible to build much better tile lines with mortar joints than we find to exist in these outfall or intercepting sewers; but the required conditions as to tightness are such that we do not favor further attempts at corrective methods by such procedure alone.

Slopes and Depths.

The contract between The City of New York and the Village of Mount Kisco provides that the 18-inch sewer shall be laid to a slope of 2 feet per 1,000. The carrying capacity at this grade when this 18-inch sewer is running full would be about three million gallons per 24 hours. For each of the 12-inch lines the capacity is about 1.2 million gallons per 24 hours.

We do not consider it necessary to provide such a large slope for the 18-inch line to take care of the volume of sewage which will be delivered through this pipe line by the Village of Mount Kisco, or which will be purified by The City of New York. In fact, if the 18-inch pipe were laid with a slope of 1.1 feet per 1,000, it would have a velocity sufficient to prevent objectionable deposits, and when running full would have a carrying capacity of about 2.3 million gallons per 24 hours. By adopting the 1.1-foot slope for the 18-inch line there would not only be sufficient carrying capacity, but there would be a considerably less depth and expense for excava-

tion. This is not only advantageous as to economy of construction, but also will lessen the weight of material upon the pipe to distort the latter from its true alignment and grade.

It appears to us that it would be a reasonable request for the Village of Mount Kisco to make of The City of New York to consent to changing the slope from those recited in the contract of January 2, 1908, to that above stated, namely, a slope of 1.1 feet per 1,000 for the 18-inch line. This change would cause the 18-inch intercepting sewer to have a depth at the pumping station of about 6.5 feet, as compared with the present depth of about 11 feet. We advise that the proper steps be taken to secure the consent of The City of New York to such measures as to make these changes in slope.

Corrective Methods.

As stated already, the main difficulty is to secure a sufficiently tight line of sewers. With vitrified pipe and mortar joints, the difficulties are such as to make it inadvisable, in our opinion, to follow this method further, so far as the entire line is concerned. For some stretches vitrified pipe is the cheapest and best material that can be used. Even with vitrified pipe we are in favor, however, of using a flexible joint rather than a rigid mortar joint, and we have recommended the use of joints made of the petroleum product known as "Hydrolene," which would be mixed with sand to give a plastic mortar. As already stated in this report, we advise that the two 12-inch lines be replaced to a limited extent with cast-iron pipe, and for other sections that they be relaid with plastic mortar joints.

We have given careful consideration to three different methods of correcting the leaky 18-inch intercepting sewer line as follows:

1. Build a duplicate cast-iron pipe line to take the place of leaky sections of the present sewer lines and put in a limited number of flexible joints of the Universal type to take care of any unequal settlements in some of the places where the material for foundation is most yielding.

2. The same method as No. 1, except that in place of cast-iron pipe use wood-stave pipe with a few piles to support the line where the material offers the most yielding foundation.

3. Build a new line of vitrified pipe laid with plastic joints of hydrolene and sand; rest the pipe on a cradle of concrete which would be about 6 inches thick beneath the bottom of the pipe with a flat base having at least one foot greater width than the outside diameter of the pipe and extending half way up the pipe on each side with the concrete 6 inches wide at the top of the cradle. Near the bottom of this concrete cradle would be reinforcing rods of steel to give rigidity and make the cradle act for all practical purposes as a concrete beam. To prevent objectionable settling of such a vitrified pipe laid in a concrete cradle, it will be necessary to place piles beneath the concrete cradle and drive them down to stable material. The spacing of these piles would probably vary from about 3 to 12 feet, depending, of course, on the character of the material found at the bottom of the trench, and the distance from the bottom of the trench to firm material below.

Estimates of Cost.

Including the cost of raising several manholes above high-water, we have prepared estimates of cost of carrying out the three methods indicated, on the assumption that the conditions would be fully as difficult after opening up the trenches as indicated by the data obtained during the past month, as follows:

Method 1	\$37,500 00
Method 2	25,000 00
Method 3	34,800 00

The figures include allowances for engineering and supervision, and cover the required work on the two 12-inch lines (about \$10,000), as well as the main repair work which is in the 18-inch line.

Conclusions and Recommendations.

It is our opinion that the wood-stave pipe should be durable for a long term of years, and we consider that in the interests of economy it is wisest to adopt this method for securing intercepting sewers of the required degree of tightness. It will probably be wise to use on the 18-inch line cast-iron pipe in some of the most difficult places, and it is also likely that near the upper end of this line there are places where the existing vitrified pipe may be used after surrounding the joints with a liberal quantity of plastic mortar made of the hydrolene compound and sand. We are aware that the execution of this work and some of its details depend upon actual conditions developed on opening up the trenches. But, taking everything into consideration, we are convinced that for the greater portion of the length it will be found most advantageous to use wood-stave pipe.

We recommend that an appropriation be made of \$25,000 to carry out these improvements; and that such formalities be taken as may be needed in the premises to obtain from The City of New York its approval of this procedure, with the understanding, of course, that it is to reduce the leakage to within the limits set forth in the contract, namely, to less than five gallons per running foot of sewer per 24 hours. Very truly yours,
GEORGE W. FULLER.

The following resolution was then adopted:

Resolved, That the following proposed supplementary agreement between The City of New York and the Village of Mount Kisco is hereby approved, in pursuance of the provisions of chapter 428, Laws of 1907;

Whereas, Heretofore and on or about the 2d day of January, 1908, a certain agreement was made and entered into by and between The City of New York, acting by and through the Commissioner of Water Supply, Gas and Electricity, and the Village of Mount Kisco, of Westchester County, acting by and through the President of the Village, said agreement being made under the provisions of chapter 428 of the Laws of 1907; and

Whereas, It is provided in and by said contract that a certain eighteen (18) inch trunk sewer should be laid at a grade of two (2) feet per thousand; and

Whereas, It has been found necessary, advantageous and proper to change the grade of said pipe of eighteen (18) inches to one and one-tenth (11-10) feet per thousand.

Now, therefore, this agreement made and entered into this day of 1912, by and between The City of New York and the Village of Mount Kisco, witnesseth, that the said agreement made and entered into by and between the parties hereto on the 2d day of January, 1908, be and is hereby amended by changing the following provision:

"The system of sewers to be built by the Village of Mount Kisco shall consist primarily of three (3) trunk sewers, which will deliver the sewage at the pumping station. These sewers and their sizes are shown on the map already referred to. One of the sewers shall be laid in the Branch Brook Valley and shall consist of a pipe of eighteen (18) inches in diameter, with a slope of two (2) feet per thousand, its approximate length being eight thousand two hundred (8,200) feet," to read as follows:

"The system of sewers to be built by the Village of Mount Kisco shall consist primarily of three (3) trunk sewers, which shall deliver the sewage at the pumping station. These sewers and their sizes are shown on the map already referred to. One of the sewers shall be laid in the Branch Brook Valley and shall consist of a pipe eighteen (18) inches in diameter, with a slope of one and one-tenth (11-10) feet per thousand, its approximate length being eight thousand two hundred (8,200) feet."

In witness whereof, the Commissioner of Water Supply, Gas and Electricity of The City of New York has hereunto set his hand for and on behalf of The City of New York, and the President of the Village of Mount Kisco, Westchester County, having been duly authorized so to do, has also hereunto set his hand and the village seal the day and year first above written, and the Commissioner and the President of the village have executed this agreement in triplicate, one part of which is to remain with the Commissioner, one other to be filed with the Comptroller of The City of New York and the third to be delivered to the village authorities of Mount Kisco, Westchester County.

Approved as to form.

W. P. BURR, Acting Corporation Counsel.

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

Pursuant to a motion adopted at the meeting held June 27, 1912, the Board adjourned to meet Thursday, September 19, 1912, at 10.30 o'clock a. m.

JOSEPH HAAG, Secretary.

Department of Public Charities.

Synopsis of the Report of the Department for the Week Ending August 3, 1912.

Communications were received from heads of institutions reporting meats, milk, fish, etc., received of good quality and up to standard.

Propositions Accepted—Jos. Balaban Co., 156 5th ave., city, alterations to vestibule door leading to ward on first story of T. and S. Building on grounds of Metropolitan Hospital, B. I., \$235.

Changes During the Week.

Appointed—July 18, Ackerman, Katharine, Hospital Helper, Metropolitan Training School, \$240; July 24, Allen, Isaac W., temporary Fireman, City Home, Brooklyn, \$3 per day; July 29, Assip, Frank B., Stoker (Marine, temporary, 3 weeks), steamboats, \$3 per day; July 16, Barnard, Wilson, Hospital Helper, Metropolitan Training School, \$180; July 20, Beglan, John F., Hospital Helper, Kings County Hospital, \$300; July 8, Boughton, Nellie A., Trained Nurse, Metropolitan Hospital, \$600; July 22, Boyle, Mary, Hospital Helper, Kings County Hospital, \$480; Brady, Bruce, Hospital Helper, Coney Island Hospital, \$240; July 15, Brooks, John H., Hospital Helper, Metropolitan Training School, \$180; July 20, Cassidy, Alicia A., temporary Trained Nurse, Metropolitan Hospital, \$600; July 31, Chance, Thomas, Stoker (temporary), Municipal Lodging House, \$3 per day; July 18, Cobey, Peter, Hospital Helper, Metropolitan Training School, \$180; July 22, Connell, Frank P., Orderly, Kings County Hospital, \$240; July 6, Connors, Margaret H., Trained Nurse, Metropolitan Hospital, \$600; July 15, Cuddy, Robert F., Hospital Helper, City Hospital, \$180; July 13, Daly, Kate, Hospital Helper, Kings County Hospital, \$240; July 25, Davis, John, Hospital Helper, Metropolitan Training School, \$180; July 4, Dimmick, Eleanore, Trained Nurse, Metropolitan Hospital, \$600; July 17, Dixon, John, Hospital Helper, Metropolitan Training School, \$180; July 22, Dowd, Edward, Hospital Helper, Coney Island Hospital, \$240; July 15, Dregan, Annie, Hospital Helper, Metropolitan Training School, \$180; July 8, Dwyer, Francis H., Hospital Helper, Coney Island Hospital, \$240; July 11, Fagan, Laura, Trained Nurse, Metropolitan Hospital, \$600; July 29, Flynn, Mary A., Examiner, Charitable Institutions, Bureau Dependent Adults, \$1,200; July 25, Gallagher, Susan, Hospital Helper, Metropolitan Training School, \$180; July 2, Gear, Margaret M., Trained Nurse (temporary), Metropolitan Hospital, \$600; July 1, Gold, Lizzie, Hospital Helper, City Hospital, \$420; July 15, Gordon, Annie G., Hospital Helper, Metropolitan Training School, \$240; July 25, Grant, Edward, Hospital Helper, Metropolitan Training School, \$180; July 15, Hackett, George, Hospital Helper, Metropolitan Training School, \$180; July 2, Hall, Jennie S., Trained Nurse (temporary), Metropolitan Hospital, \$600; July 20, Hannas, Anna G., Trained Nurse (temporary), Metropolitan Hospital, \$600; July 16, Hogan, Michael, Hospital Helper, Metropolitan Training School, \$240; July 25, Huebner, Margaret, Hospital Helper, Metropolitan Training School, \$180; July 16, Hughes, Margaret, Trained Nurse, Kings County Hospital, \$600; July 22, Hynds, Martin F., Hospital Helper, Cumberland Street Hospital, \$240; July 26, Joyce, George, Hospital Helper, Metropolitan Training School, \$180; July 1, Kehl, Mary, Trained Nurse (temporary), Metropolitan Hospital, \$600; July 28, Kelly, Delia, Hospital Helper, Randalls Island, \$360; July 15, Kelly, John, Hospital Helper, Metropolitan Training School, \$180; July 8, Kennedy, Mary E., Trained Nurse (temporary), Metropolitan Hospital, \$600; July 20, Loftsrum, Lizzie, Hospital Helper, Kings County Hospital, \$240; July 12, MacDermott, Penelope, Trained Nurse (temporary), City Home, \$600; August 2, Madden, Madeleine, Stenographer and Typewriter (temporary emergency), Central Office (Manhattan), \$750; July 25, Moore, Elizabeth, Hospital Helper, Metropolitan Training School, \$240; August 1, Morgan, Bridget (Mrs.), Hospital Helper, Children's Bureau (Manhattan), \$240; July 17, McBrinn, Delia, Hospital Helper, Metropolitan Training School, \$240; July 25, McCaffrey, John, Cook, Kings County Hospital, \$240; July 17, McDermot, Julia, Hospital Helper, Kings County Hospital, \$192; July 27, McInerney, Joseph, Hospital Helper, City Home, B. D., \$180; August 1, McNabb, James P., Hospital Clerk, General Drug Department, \$600; July 16, Natherson, Kate, Hospital Helper, Metropolitan Training School, \$180; July 19, O'Beirne, Jennie, Hospital Helper, Metropolitan Training School, \$240; July 20, O'Bryan, James G. (reappointed), Hospital Helper, Kings County Hospital, \$240; July 24, O'Connor, James, Hospital Helper, Metropolitan Training School, \$180; July 15, O'Connor, Mary, Hospital Helper, Metropolitan Training School, \$180; O'Reilly, Jennie, Hospital Helper, Metropolitan Training School, \$180; July 23, Parsells, Pierre,

Hospital Helper, Cumberland Street Hospital, \$240; July 22, Ralph, Frank, Hospital Helper, Kings County Hospital, \$240; July 15, Resbit, Annie, Hospital Helper, Metropolitan Training School, \$240; July 2, Robertson, Eva W., Trained Nurse (temporary), Metropolitan Hospital, \$600; Robinson, Phoebe, Trained Nurse (temporary), Metropolitan Hospital, \$600; July 31, Rodahan, Patrick (reappointed), Hospital Helper, Kings County Hospital, \$480; July 16, Sak, Nellie, Hospital Helper, Metropolitan Training School, \$240; Schenck, Janet, Hospital Helper, Metropolitan Training School, \$240; July 26, Slater, Michael, Stoker (Licensed Fireman), Municipal Lodging House, \$3 per day; August 1, Stoddard, Lawrence, Clerk, Kings County Hospital, \$750; July 17, Sullivan, Kate, Hospital Helper, Metropolitan Training School, \$240; July 6, Thomas, Constance, Trained Nurse, Metropolitan Hospital, \$600; July 27, Thrower, Ed. R., Hospital Helper, Kings County Hospital, \$300; July 20, Townsend, Mary, Hospital Helper, Metropolitan Training School, \$240; July 5, Tully, Adele B., Trained Nurse, Metropolitan Hospital, \$600; July 19, Ward, John F., Hospital Helper, Coney Island Hospital, \$240; July 30, Williams, Wm. J., Hospital Helper, Kings County Hospital, \$240; July 20, Willis, Joseph S., Hospital Helper, Kings County Hospital, \$240; July 16, Wright, Lillian, Hospital Helper, Metropolitan Training School, \$300; July 22, Daly, Terence J., Examiner, Charitable Institutions, Bureau Dependent Adults, \$1,200; McHugh, Cecilia, Examiner, Charitable Institutions, Bureau Dependent Adults, \$1,200.

Resigned—July 23, Allen, Isaac, Hospital Helper, Kings County Hospital; July 26, Beglan, John F., Hospital Helper, Kings County Hospital; July 18, Belnap, Clifford, Hospital Helper, City Home, B. D.; July 26, Connell, Frank P., Orderly, Kings County Hospital; July 24, Conner, Mary A., Trained Nurse, Metropolitan Training School; July 18, Dunningan, James, Laundryman, Coney Island Hospital; July 22, Evans, Horace, Hospital Helper, Coney Island Hospital; July 26, Faile, Howard A., Hospital Helper, Kings County Hospital; July 23, Gannon, Jesse, Butcher, Cumberland Street Hospital; July 21, Hanley, John J., Orderly, Kings County Hospital; Hannas, Anna G., Trained Nurse (temporary), Metropolitan Hospital; July 23, Hart, John L., Hospital Helper, Kings County Hospital; July 29, Leonard, Clifford, Hospital Helper, Randalls Island; July 13, Malloy, Philip J., Hospital Helper, Metropolitan Training School; July 24, Maroney, Annie, Hospital Helper, City Training School; July 23, Moran, James, Hospital Helper, Randalls Island; July 20, McLoughlin, Joseph, Hospital Helper, Kings County Hospital; July 31, O'Neil, F. K., Waitress, City Home, B. D.; July 28, Quinn, Andrew, Hospital Helper, City Home, B. D.; July 20, Rooney, Kate, Hospital Helper, Randalls Island; July 31, Sheerer, Cath. A., Waitress, Cumberland Street Hospital; July 22, Strawbridge, James, Cook, Kings County Hospital.

Dropped—July 27, Barnard, Wilson, Hospital Helper, Metropolitan Training School; July 21, Boyle, Mary, Stenographer and Typewriter, Kings County Hospital; July 23, Brown, William, Licensed Fireman (temporary), City Home (Brooklyn); July 31, Chance, Thomas, Stoker (temporary), Municipal Lodging House; July 20, Cleary, John, Hospital Helper, Kings County Hospital; July 17, Connolly, Kate, Hospital Helper, Metropolitan Training School; August 1, Cornett, William H., Hospital Helper, Municipal Lodging House; July 15, Costigan, James, Deckhand, steamboats; July 19, Dooley, Thomas, Hospital Helper, Metropolitan Hospital; July 17, Glynn, Michael J., Hospital Helper, Kings County Hospital; July 13, Olster, Helen, Hospital Helper, Metropolitan Training School; July 30, Rodahan, Patrick J., Clerk (temporary), Kings County Hospital; July 31, Smith, Harry, Hospital Helper, Metropolitan Training School; July 17, Townsend, Mary, Hospital Helper, Metropolitan Training School; July 31, Tureand, Kate, Supervising Nurse, Randalls Island; July 23, Wilson, James, Hospital Helper, City Hospital.

Promoted—July 18, Baker, Charles, Hospital Helper, Metropolitan Training School, \$150 to \$180; Banahan, Delia, Hospital Helper, Metropolitan Training School, \$360 to \$420; Barker, Ellen, Hospital Helper, Metropolitan Training School, \$150 to \$180; Baxter, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; Bayer, Fred, Hospital Helper, Metropolitan Training School, \$180 to \$192; Blake, Harry, Hospital Helper, Metropolitan Training School, \$150 to \$180; Brock, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; Burns, William, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Burrows, Claude, Hospital Helper, Metropolitan Training School, \$150 to \$180; Caesar, Frank, Hospital Helper, Metropolitan

Training School, \$150 to \$180; Cahill, Jennie, Hospital Helper, Metropolitan Training School, \$180 to \$240; Campbell, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Cappell, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Carlisle, Bernard, Hospital Helper, Metropolitan Training School, \$150 to \$180; Carr, Edward, Hospital Helper, Metropolitan Training School, \$150 to \$180; Carroll, Martin, Hospital Helper, Metropolitan Training School, \$150 to \$180; Cavanagh, Mary, Hospital Helper, Metropolitan Training School, \$216 to \$300; Clark, Margaret, Hospital Helper, Metropolitan Training School, \$180 to \$240; Clark, Mary, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 22, Collins, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Crawford, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; Crowe, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Curran, Joseph, Hospital Helper, Metropolitan Training School, \$150 to \$180; Curtin, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; Cusack, Alice, Hospital Helper, Metropolitan Training School, \$240 to \$300; Cusick, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 1, Daley, May, Hospital Helper, Kings County Hospital, \$216 to \$240; July 18, Davis, Mary, Hospital Helper, Metropolitan Training School, \$180 to \$240; Dillon, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Donnelly, Thomas F., Hospital Helper, Metropolitan Training School, \$150 to \$180; Dougherty, Lizzie, Hospital Helper, Metropolitan Training School, \$180 to \$240; Dowling, James H., Hospital Helper, Metropolitan Training School, \$180 to \$192; Egan, John, Hospital Helper, Metropolitan Training School, \$180 to \$240; July 23, Eglinton, John, Hospital Helper, Metropolitan Hospital, \$150 to \$180; July 18, Ekstrom, Axel, Hospital Helper, Metropolitan Hospital, \$150 to \$180; Erwin, Sarah, Hospital Helper, Metropolitan Training School, \$180 to \$192; Evans, Mary, Hospital Helper, Metropolitan Training School, \$180 to \$240; Fitzpatrick, Ellen, Hospital Helper, Metropolitan Training School, \$180 to \$240; Flanagan, Sarah, Hospital Helper, Metropolitan Training School, \$180 to \$240; Fraser, William, Hospital Helper, Metropolitan Training School, \$216 to \$240; July 24, Goodwin, Albert, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Gross, Robt., Hospital Helper, Metropolitan Training School, \$180 to \$192; Heppenheimer, Henry, Hospital Helper, Metropolitan Training School, \$150 to \$180; Hamilton, Mary, Hospital Helper, Metropolitan Training School, \$150 to \$180; Hanchett, George, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 22, Hartman, Frank, Metropolitan Training School, \$150 to \$180; July 18, Hastings, Herbert, Hospital Helper, Metropolitan Training School, \$150 to \$180; Haut, Charles, Hospital Helper, Metropolitan Training School, \$216 to \$300; Hautville, Mary, Hospital Helper, Metropolitan Training School, \$360 to \$420; Hiller, Terence, Hospital Helper, Metropolitan Training School, \$150 to \$180; Holohan, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 25, Hunter, Martha, Hospital Helper, City Training School, \$144 to \$240; July 18, Johnson, Augustus, Hospital Helper, Metropolitan Training School, \$150 to \$180; Johnson, Dora, Hospital Helper, Metropolitan Training School, \$240 to \$300; Johnson, Mary, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kane, Bridget, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kearney, Julia, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kelly, Margaret, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kelly, Robert, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kelly, Stephen, Hospital Helper, Metropolitan Training School, \$150 to \$180; Kelly, William, Hospital Helper, Metropolitan Training School, \$150 to \$180; Laughlin, Bernard, Hospital Helper, Metropolitan Training School, \$180 to \$192; Logan, Catherine, Hospital Helper, Metropolitan Training School, \$180 to \$240; Madden, Rose, Hospital Helper, Metropolitan Training School, \$180 to \$192; Maher, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Mahoney, James, Hospital Helper, Metropolitan Training School, \$216 to \$240; Malloy, Mary, Hospital Helper, Metropolitan Training School, \$150 to \$180; Meier, Walter, Hospital Helper, Metropolitan Training School, \$150 to \$180; Metz, George, Hospital Helper, Metropolitan Training School, \$150 to \$180; Miller, Martha, Hospital Helper, Metropolitan Training School, \$180 to \$240; Mobab, Maria, Hospital Helper, Metropolitan Training School, \$180 to \$240; Montague, Andrew, Hospital Helper, Metropolitan Training School, \$150 to \$180; Mooney, Kate, Hospital Helper, Metropolitan

Training School, \$180 to \$240; Moser, Jacob, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 20, Mullen, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Murphy, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; McCabe, Mary, Hospital Helper, Metropolitan Training School, \$180 to \$240; McCotter, Jennie, Hospital Helper, Metropolitan Training School, \$150 to \$180; McElroy, Frank, Hospital Helper, Metropolitan Training School, \$150 to \$180; McGreevy, Patrick, Hospital Helper, Metropolitan Training School, \$180 to \$240; McGriskin, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; McHugh, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; McKenzie, Mary, Hospital Helper, Metropolitan Training School, \$180 to \$192; McNally, Thomas, Hospital Helper, Metropolitan Training School, \$150 to \$180; McNamee, Michael, Hospital Helper, Metropolitan Training School, \$150 to \$180; Neary, Annie, Hospital Helper, Metropolitan Training School, \$216 to \$240; Newman, Annie, Hospital Helper, Metropolitan Training School, \$150 to \$180; Newton, Lillia May, Hospital Helper, Metropolitan Training School, \$360 to \$420; Newman, William, Hospital Helper, Metropolitan Training School, \$150 to \$180; Nolan, John, Hospital Helper, Metropolitan Training School, \$180 to \$192; July 24, O'Beirne, Jennie, Hospital Helper, Metropolitan Training School, \$240 to \$300; July 18, O'Brien, Delia, Hospital Helper, Metropolitan Training School, \$150 to \$180; O'Brien, Joseph, Hospital Helper, Metropolitan Training School, \$150 to \$180; O'Brien, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; O'Dell, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; O'Leary, Michael, Hospital Helper, Metropolitan Training School, \$150 to \$180; O'Neil, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; Pendleton, Lizzie, Hospital Helper, Metropolitan Training School, \$150 to \$180; Philippo, Dominick, Hospital Helper, Metropolitan Training School, \$360 to \$480; Pickett, Mary, Hospital Helper, Metropolitan Training School, \$150 to \$180; Poberesky, Fannie, Hospital Helper, Metropolitan Training School, \$240 to \$300; Powell, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Powers, Ellen, Hospital Helper, Metropolitan Training School, \$150 to \$180; Reynolds, Bridget, Hospital Helper, Metropolitan Training School, \$180 to \$240; Reilly, Lizzie, Hospital Helper, Metropolitan Training School, \$180 to \$192; Roberts, Michael, Hospital Helper, Metropolitan Training School, \$150 to \$180; Roberts, William, Hospital Helper, Metropolitan Training School, \$216 to \$240; Rogan, James, Hospital Helper, Metropolitan Training School, \$150 to \$180; Rushton, Edward, Hospital Helper, Metropolitan Training School, \$150 to \$180; Russell, John, Hospital Helper, Metropolitan Training School, \$150 to \$180; Ryan, Annie, Hospital Helper, Metropolitan Training School, \$180 to \$240; Ryan, Mary, Hospital Helper, Metropolitan Training School, \$180 to \$240; Ryan, Patrick, Hospital Helper, Metropolitan Training School, \$150 to \$180; Ryder, Charles, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 24, Schwanz, Gustave, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Shaw, Alfred E., Hospital Helper, Metropolitan Training School, \$150 to \$180; Smith, Edward, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 23, Smith, Harry, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 18, Stewart, Archibald, Hospital Helper, Metropolitan Training School, \$216 to \$240; Sweeney, Joseph, Hospital Helper, Metropolitan Training School, \$150 to \$180; Tate, Michael, Hospital Helper, Metropolitan Training School, \$150 to \$180; July 20, Thompson, Herbert L., Hospital Helper, City Home, B. D., \$144 to \$240; July 19, Timlin, John J., Hospital Helper, City Home, B. D., \$240 to \$300; July 18, Wainwright, Walter, Hospital Helper, Metropolitan Training School, \$150 to \$180; Wiggins, John, Hospital Helper, Metropolitan Training School, \$216 to \$240.

JOHN CONNOLLY, Jr., Acting Secretary.

Police Department.

Report for the Week Ending August 3, 1912.

July 29.

Amusement License Granted—Franklin A. C. (Inc.), Franklin Field, The Bronx, from July 29, 1912, to August 3, 1912, \$50.

Runner's License Granted—Wm. J. Anthony, 424 W. 26th st., Manhattan, from July 29, 1912, to July 28, 1913, fee \$20, bond \$300.

July 30.

William A. Ellis was granted amusement license for the European Circus,

Brooklyn, from July 30 to August 29, 1912; fee, \$50.

July 31.

Leander S. Sire was granted theatrical license for Bijou Theatre, Manhattan, from July 31, 1912, to April 30, 1913; fee, \$500.

The following members of the Force were relieved and dismissed from the Police Force and service and placed on the roll of the Police Pension Fund and were awarded the following pensions, to take effect 12 midnight, July 30, 1912:

On Police Surgeons' Certificate.
Sergeants—Frank J. Driscoll, 5th precinct, at \$875 per annum, appointed December 9, 1890; George W. Jackson, 13th precinct, at \$680 per annum, appointed January 21, 1897; Philip F. Gleason, 17th precinct, at \$875 per annum, appointed May 18, 1892.

Patrolmen—Patrick Dooley, 13th precinct, at \$700 per annum, appointed November 26, 1890; Harry C. Williams, 14th precinct, at \$575 per annum, appointed February 26, 1896; Edward J. O'Connor, 14th precinct, at \$700 per annum, appointed July 14, 1892; Luke Miley, 21st precinct, at \$700 per annum, appointed March 24, 1888; Patrick J. Muldoon, 31st precinct, at \$700 per annum, appointed May 22, 1890; Isaac W. Decker, 37th precinct, at \$700 per annum, appointed September 25, 1890; John J. Nevins, 42d precinct, at \$650 per annum, appointed March 1, 1894; Thomas McGillin, 150th precinct, at \$700 per annum, appointed May 25, 1892; John H. Schoppmeyer, 153d precinct, at \$700 per annum, appointed March 14, 1894; Wilber F. Thompkins, 153d precinct, at \$700 per annum, appointed February 18, 1891; George Davis, 167th precinct, at \$515 per annum, appointed December 21, 1897; Charles T. Belger, 171st precinct, at \$700 per annum, appointed March 30, 1892; Maurice Ryan, 275th precinct, at \$700 per annum, appointed June 8, 1892; Patrick J. Purcell, Traffic Precinct B, at \$700 per annum, appointed July 14, 1902.

Members of the Force having been tried on charges before a Deputy Commissioner, fines were imposed as follows:

Patrolmen—Louis Moses, 16th precinct, July 8, used insubordinate language to Lieutenant, 5 days; John S. Wallace, 22d precinct, July 11, allowed an unknown man to enter alleged gambling house and put him out of possession of same, 30 days; John F. Pryor, 22d precinct, July 12, did not properly patrol, could not be found on post, 5 days; Theodore R. Unger, 22d precinct, July 10, absent from special post, coming from clothing store, 15 days; Michael J. Philbin, 37th precinct, July 13, absent from post, standing in liquor saloon, 15 days; Oscar A. J. Hague, 149th precinct, July 10, (1) assigned to fixed post, was leaning against elevated railroad column, (2) physically unable to perform police duty, due to the use of intoxicating agent, 20 days.

The following member of the Force having been tried on a charge before a Deputy Commissioner, was reprimanded:

Acting Detective Sergeant Michael Sullivan, Detective Bureau, July 17, allowed a prisoner to escape.

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

Lieutenant John Millmore, Detective Bureau, July 15, failed to make prompt report of a swindle reported to him by citizen.

Patrolmen—Thomas F. Diskin, 14th precinct, July 12, struck citizen in face with his fist and across shoulder with baton; Eugene A. Healy, 10th precinct, July 6, (1) refused to make arrest for assault, (2) took hold of and interfered with citizen; John E. Daly, 22d precinct, July 13, struck citizen on the face with his hand and kicked him on the legs; Bernard Kobler, 23d precinct, July 15, standing in conversation; Joseph G. Oak, 26th precinct, July 4, failed to provide clean linen, had bed linen in soiled and unclean condition; Joseph Nally, 26th precinct, July 4, failed to provide clean linen, had bed linen in soiled and unclean condition; Russell McKee, 26th precinct, July 4, failed to provide clean bed linen, had bed linen in soiled and unclean condition; Frederick P. Hembdt, 26th precinct, July 4, failed to provide clean bed linen, had bed linen in soiled and unclean condition; John G. Burns, 26th precinct, July 4, failed to provide clean bed linen, had bed linen in soiled and unclean condition; Otto M. Whitney, 32d precinct, July 5, standing in conversation with citizen; Frederick Wendell, 32d precinct, July 5, standing in conversation; John J. Wall, 32d precinct, July 5, standing in conversation; Matthew T. McKeon, 32d precinct, July 11, failed to report for duty as ordered; Frederick E. Best, Jr., 36th precinct, June 27, struck man in face with fist and night baton, without cause.

The death was reported of Mounted Patrolman Richard S. Chaffee, 168th precinct, at 6.27 a. m., July 27, 1912.

August 1.

Patrolman Thomas Donoghue, 61st precinct, was retired on his own application

at 12 midnight, with pension of \$700 per annum, appointed April 9, 1879.

The resignation was accepted of Patrolman James V. McCarthy, 22d precinct, in effect 12 midnight, July 31, 1912.

The death was reported of Patrolman Thomas P. Bowler, Traffic Precinct C, at 9.55 p. m., July 31, 1912.

Advancements to Grade:

To \$1,150 Grade, July 29, 1912—Jacob Kolsin, 7th precinct; Thomas H. Kennelly, 8th precinct; Thomas F. Diskin, 14th precinct; John J. Bratt, 14th precinct; Carl O. Ahlgren, 14th precinct; Abram La Tourette, 14th precinct; Opley Wingfield, 15th precinct; Estel Beekman, 15th precinct; Michael Gavigan, 18th precinct; George Derleth, 18th precinct; Eugene R. Dunn, 21st precinct; Henry M. Starr, 22d precinct; Patrick P. McCarthy, 28th precinct; Gus Levy, 28th precinct; John Flemming, 29th precinct; John A. Cronin, 29th precinct; Patrick J. McGowan, 31st precinct; Frederick C. Wendell, 32d precinct; Louis Gandert, 37th precinct; Herman H. Geideman, 40th precinct; Herbert H. Hollweg, 43d precinct; Joseph C. Perez, 81st precinct; James J. Donahue, 144th precinct; Frank W. Young, 148th precinct; Joseph F. Tevlin, 149th precinct; Charles S. McGowan, 150th precinct; Oscar Haase, 150th precinct; Ernest T. Enck, 154th precinct; Daniel F. Stack, 155th precinct; Frank B. Ahlborn, 162d precinct; Arthur Wagner, 164th precinct; William F. Keegan, 278th precinct; Frederick C. Kruse, Central Office.

To \$1,150 Grade, July 31, 1912—John J. Foley, 22d precinct; James A. Maloney, 31st precinct; Thomas J. Danaher, 145th precinct; Joseph F. Grady, 146th precinct; James J. Blake, 278th precinct; Peter Kunzweiler, 279th precinct; Paul A. Szermer, Detective Bureau.

Patrolmen Thomas A. Conlon, James J. Lynch and George H. Dale were promoted to the rank of Sergeant of Police, in the Police Department of The City of New York, their names appearing on eligible list dated July 31, 1912.

Granted—Petition for increased pension of Elizabeth C. Bush, 235 Skillman st., Brooklyn, widow of Charles E. Bush, pensioner, awarded total sum of \$300 per annum, to take effect July 1, 1912.

August 2.

Section 1 of article III. of the "Rules for Driving and the Regulation of Street Traffic" established by this Department, as amended April 30, 1909, was amended to read as follows:

"Article III. Right of Way.

"Sec. 1. Police, Fire Department, Fire Patrol, Gas Emergency Repair, Bureau of Buildings, Street Railroads Emergency Repair, United States Mail Vehicles and Ambulances shall have the right of way in any street and through any procession."

William J. Norton, of 28 St. Nicholas place, Manhattan, was employed as Trial Stenographer in the Police Department of The City of New York, with compensation of \$2,500 per annum, his name appearing on eligible list dated July 23, 1912.

Upon a statement of the Chief Clerk of bids received, the contract for building and completing the new station house, prison and garage for the 15th precinct, at Nos. 321 and 323 5th st., was awarded to William P. Seaver, 322 5th ave., for the sum and price of \$97,963, he being the lowest bidder; sureties, Southern Surety Company and Maryland Casualty Company.

August 3.

Edward A. Smyrk, 235 Greene st., Brooklyn, was granted runner license from August 25, 1912, to August 24, 1913; fee, \$12.50; bond, \$300.

The following members of the Force were retired, in effect at 12 midnight, August 2, 1912: Sergeant Denis F. McCarthy, 39th precinct, on Police Surgeons' certificate, pension \$875 per annum, appointed May 2, 1887; Patrolman William J. Thompson, 18th precinct, on his own application, pension \$700 per annum, appointed April 8, 1885.

The resignation was accepted of Patrolman John L. O'Toole, 28th precinct, in effect 12 midnight, August 2, 1912.

The death was reported of Patrolman Henry Kirschkoff, 21 precinct, at 10.35 p. m., August 1, 1912.

R. WALDO, Police Commissioner.

Borough of Queens.

Commissioner of Public Works.

New York, August 7, 1912.

Report of the transactions of the office of the Commissioner of Public Works, Borough of Queens, for the week ending June 15, 1912:

Public Moneys Received During the Week—For restoring pavement over street openings, \$380; for vault permits, \$201.30; for sewer connections, \$401.70. Total, \$983.

Requisitions Drawn on Comptroller—Bureau of Highways, \$26,618.25; Bureau of Sewers, \$3,096; Bureau of Street Cleaning, \$8,493.25; Bureau of Public Buildings and Offices, \$1,186.13; Bureau of Topographical Surveys, \$1,552.64. Total, \$40,946.27.

Permits Issued—To open streets to tap water pipes, 46; to open streets to repair water connections, 23; to open streets to make sewer connections, 20; to open streets to repair sewer connections, 1; to place building material on streets, 21; to construct street vaults, 6; special permits, 58; to cross sidewalks, 26; for subways, steam mains and various connections, 95; for railway construction and repairs, 13; to repair sidewalks, 20; for sewer connections, 25; for sewer repairs, 1, for other purposes, 4. Total, 359.

Bureau of Highways.

Macadamized Streets—Square yards of macadam pavement repaired, 17,366; square yards of macadam pavement cleaned, 13,777; square yards of macadam pavement resanded, 8,560; square yards of macadam road picked up, 1,876; square yards of broken stone spread on picked up bottom, 20,677; square yards of macadam pavement sanded and screened, 14,238; square yards of macadam pavement finished, 5,311; square yards of dirt wings honed, 33,223; loads of screenings used, 300; loads of broken stone used, 516; loads of sand used, 499; loads of wornout material used, 1,238; linear feet of gutters cleaned, 55,678; linear feet of curb reset, 220; square yards of roadway covered with tarvia, 20,478; barrels of tarvia used, 36.

Paved Streets—Square yards of granite pavement repaired, 617; square yards of trap rock pavement repaired, 72; square yards of cobble pavement repaired, 114; square yards of asphalt block pavement repaired, 20; square yards of brick pavement repaired, 320; loads of sand used in repairs, 324; loads of stone hauled, 157; square feet of flagstones relaid, 896; linear feet of curb reset, 77; linear feet of curb dressed, 147; linear feet of crosswalks removed, 60; loads of wornout material hauled away, 125; asphalt blocks used, 377; new bricks used, 40; bags of cement used, 1; loads of granite blocks hauled, 10.

Unimproved Streets—Square yards of roadway graded, 19,123; square yards of roadway crowned and repaired, 206,100; square yards of sidewalks graded, 606; loads of dirt hauled away, 684; loads of dirt put on, 2,316; linear feet of gutters formed, 18,683; linear feet of gutters cleaned, 7,775.

Viaducts, Bridges and Culverts—Culverts cleaned, 2; 1 16 inches by 36 feet, 1 12 inches by 36 feet.

Bridges—900 feet B. M. 2 inches by 12 inches second hand plank, 28 pieces 2 inches by 12 inches by 16 feet, 9 pieces 2 inches by 4 inches by 18 feet, 19 pounds 4-inch nails, 8 pieces 4 inches by 4 inches by 12 feet, loads of dirt put on, 41; loads of dirt removed, 5.

Miscellaneous—1 drain dug, 12 inches by 75 feet.

Bureau of Sewers—Number of basins built, 1; number of manholes built, 2; linear feet of sewer cleaned, 13,025; number of basins cleaned, 131; linear feet of sewer examined, 6; linear feet of sewer flushed, 10,255; number of basins repaired, 6; linear feet of sewer repaired, 156; number of manholes flushed, 124; open drains cleaned, 11,415; box and pipe drains cleaned and repaired, 20 feet; material used, 300 feet 2 by 12 plank, 21 bags cement, 610 bricks, 70 feet 10-inch pipe, 30 feet 20-inch pipe; loads removed from sewers, 124; loads removed from basins and drains, 189; loads of stone used, 9½; loads of earth used, 18; loads of sand used, 6.

Street Sweepings, Garbage, etc., Collected and Disposed of—Ashes, loads, 1,418¼; sweepings, loads, 1,209; rubbish, loads, 693; garbage, loads, 818½; miles of street swept, 86; miles of private street swept, 7; miles of gutters swept, 30.

Bureau of Topographical Surveys.

Work Done by Office Force—Rule Maps: Britton ave., Elmhurst ave., Harold ave., 9th ave., Monroe st. Draft Damage Maps: Britton ave., Elmhurst ave., Ashland st., Bryant ave., Longfellow ave., Irving st., Holmes ave., Queens boulevard, Yellowstone ave., Skillman place, Skillman ave., Ridge st., Monroe st., Rockaway road. Profile Maps: Monroe st., Harold ave., Bryant ave., Longfellow ave., Irving st., Holmes ave., Roosevelt ave., Chicago st., Toledo st., Parcell st., Medina place, Britton ave., Elmhurst ave., Monroe st. Final Damage Map: Garrison ave. Final Benefit Map: Penelope st., Van Deventer ave., Poyer st. Copying Old Maps and Records: County Clerk's Office. Calculating and plotting of field work.

Work Done by Field Force—Monumenting: Long Island City, Jamaica, Hollis, Bayside, Aqueduct, Queens, South Jamaica, South Ozone Park, Douglaston, Little Neck. Damage: Elmhurst, Richmond Hill, Eliot ave., Maspeth. Location and Survey: Woodhaven, Jamaica, South Jamaica, Springfield, Hollis, Floral Park.

Amount of vouchers certified to the Comptroller during the current week, \$1,552.64.

Bureau of Highways—Foremen, Assistant Foremen, Mechanics and Laborers, 522; teams, 52; horses and carts, 96.

Bureau of Sewers—Foremen, Assistant Foremen, Drivers, Sounders, Mechanics and Laborers, 159; horses and carts, 20.

Bureau of Street Cleaning—District Superintendent, Foremen, Assistant Foremen, Mechanics, Helpers, Drivers, Laborers and Clerks, 275; teams and trucks, 41; teams and sweepers, 6; horses and carts, 121; horses and sprinklers, 7.

Bureau of Public Buildings and Offices—Clerks, Foremen, Engineer, Firemen, Stokers, Carpenters, Plumbers, Pipefitters, Tinsmith, Helpers, Painters, Laborers, Cleaners, Janitors, Mason, Helpers and Attendant, 82.

Bureau of Topographical Surveys—Engineer in Charge, Assistant Engineer, Laborers, Sounders, Rodmen, Drivers, Foremen, Assistant Foremen, Draftsmen, Transitmen, Computers, Riggers, Axemen and Flaggers, 152.

DENIS O'LEARY, Commissioner of Public Works, Borough of Queens.

Commissioner of Public Works.

New York, August 7, 1912.

Report of the transactions of the office of the Commissioner of Public Works, Borough of Queens, for the week ending June 22, 1912:

Public Moneys Received During the Week—For restoring pavement over street openings, \$262.30; for vault permits, \$42.80; for sewer connections, \$422.40. Total, \$727.50.

Requisitions Drawn on Comptroller—Bureau of Highways, \$55,310.70; Bureau of Sewers, \$10,322.91; Bureau of Street Cleaning, \$7,983.16; Bureau of Public Buildings and Offices, \$530.35; Bureau of Topographical Surveys, \$621.25. Total, \$74,768.37.

Permits Issued—To open streets to tap water pipes, 56; to open streets to repair water connections, 16; to open streets to make sewer connections, 21; to open streets to repair sewer connections, 4; to place building material on streets, 22; to construct street vaults, 7; special permits, 66; to cross sidewalks, 6; for subways, steam mains and various connections, 118; for railway construction and repairs, 4; to repair sidewalks, 22; for sewer connections, 30; for sewer repairs, 5; for other purposes, 1. Total, 378.

Bureau of Highways.

Macadamized Streets—Square yards of macadam pavement repaired, 18,640; square yards of macadam pavement cleaned, 2,956; square yards of macadam pavement resanded, 4,469; square yards of macadam road picked up, 9,214; square yards of broken stone spread on picked up bottom, 7,192; square yards of macadam pavement sanded and screened, 10,922; square yards of macadam pavement finished, 7,323; square yards of dirt wings honed, 48,094; loads of screenings used, 239; loads of broken stone used, 3,393; loads of sand used, 506; loads of wornout material hauled away, 1,660; linear feet of gutters cleaned, 58,586; linear feet of curb dressed, 42; loads of dirt put on, 10; linear feet of roadway oiled, 15,150; loads of oil used, 22.

Paved Streets—Square yards of granite pavement repaired, 729; square yards of trap rock pavement repaired, 48; square yards of asphalt block pavement repaired, 4; square yards of brick pavement repaired, 329; loads of sand used in repairs, 293; loads of gravel used in repairs, 1; loads of stone hauled, 80; linear feet of new curb laid, 340; linear feet of curb dressed, 325; square yards of roadway concreted, 4; bags of cement used, 13; asphalt blocks used, 118; loads of wornout material hauled away, 101; loads of brick used, 4; new brick used, 15.

Unimproved Streets—Square yards of roadway graded, 15,122; square yards of roadway crowned and repaired, 25,556; square yards of sidewalk graded, 540; loads of dirt hauled away, 288; loads of dirt put on, 2,134; linear feet of gutters formed, 10,695; linear feet of gutters cleaned, 5,400.

Repairing Culverts—Linear feet of 12-inch tile pipe laid, 12; 4 2 inches by 12 inches by 16 feet planks used, 2 inches by 4 inches by 18 feet rails used, 3 pounds 5-inch nails used, 2 pounds 4-inch nails used.

Trees and Weeds—Dead and dangerous trees and weeds cut down and removed, 1; loads of dead limbs hauled away, 2.

Bureau of Sewers—Linear feet of sewer cleaned, 1,200; number of basins cleaned, 206; linear feet of sewer flushed, 27,100; number of basins repaired, 2; linear feet of sewer repaired, 423; number of manholes cleaned, 44; open drains cleaned, 6,898; culvert and stone drains cleaned and repaired, 135; material used, 19 bags of cement, 1,740 bricks, 1 manhole cover, 12 feet 24-inch pipe, 2 feet 12-inch pipe, 65 2-inch planks, 300 2 by 12-inch planks, 200 2 by 6-inch planks, 155 feet 2 by 4 joists; loads removed from sewers, 129; loads removed from basins and drains, 242; loads of stone used, 1; loads of earth used, 351; loads of sand used, 16 and 2 bags.

Street Sweepings, Garbage, etc., Collected and Disposed of—Ashes, loads, 1,246; sweepings, loads, 1,275¼; rubbish, loads, 721¼; garbage, loads, 982; miles

of street swept, 86; miles of private street swept, 7; miles of gutters swept, 30. Bureau of Topographical Surveys.

Work Done by Office Force—Rule Maps: Elmhurst ave., Britton ave., Roosevelt ave., Chicago st., Toledo st., Medina place, Parcell st., Rust st., Clark ave., Perry ave., Skillman, Bryant, Longfellow and Holmes ayes., Irving st., Monroe st., Queens boulevard. Draft Damage Maps: Elmhurst and Britton ayes., Chicago, Toledo and Parcell sts., Medina place, Bryant, Holmes, Longfellow ayes., Irving st., Ashland, Opdyke and Monroe sts., Gosman ave., Addison place, Queens boulevard, Clark ave., Perry ave., Rust st., Rockaway road. Profile Maps: Britton and Elmhurst ayes., Monroe st., Roosevelt ave., Chicago, Toledo and Parcell sts., Medina place. Final Damage Maps: Garrison ave. Final Benefit Maps: Penelope st., Van Deventer ave., Poyer st. Copying Old Maps and Records: County Clerk's Office. Calculating and plotting of field work.

Work Done by Field Force—Monumenting: Ridgewood, Douglaston, Jamaica, Corona, Long Island City, Queens, Richmond Hill. Location: Douglaston, South Jamaica, Aqueduct, South Ozone Park, Elmhurst, College Point, Eliot ave., Floral Park, Bayside. Damage: Elmhurst, College Point, Eliot ave., Corona, Flushing, Maspeth.

Amount of vouchers certified to the Comptroller during the current week, \$621.25.

Bureau of Highways—Foremen, Assistant Foremen, Mechanics and Laborers, 548; teams, 54; horses and carts, 94.

Bureau of Sewers—Foremen, Assistant Foremen, Drivers, Sounders, Mechanics and Laborers, 159; horses and carts, 20.

Bureau of Street Cleaning—District Superintendent, Foremen, Assistant Foremen, Mechanics, Helpers, Drivers, Laborers and Clerks, 275; teams and trucks, 42; teams and sweepers, 6; horses and carts, 123; horses and sprinklers, 7.

Bureau of Public Buildings and Offices—Clerks, Foremen, Engineer, Firemen, Stokers, Carpenters, Plumbers, Pipefitters, Tinsmith, Helpers, Painters, Laborers, Cleaners, Janitors, Mason, Helpers and Attendant, 82.

Bureau of Topographical Surveys—Engineer in Charge, Assistant Engineer, Laborers, Sounders, Rodmen, Drivers, Foremen, Assistant Foremen, Draftsmen, Transmitters, Computers, Riggers, Axemen and Flaggers, 152.

DENIS O'LEARY, Commissioner of Public Works, Borough of Queens.

Commissioner of Public Works.

New York, August 7, 1912.

Report of the transactions of the office of the Commissioner of Public Works, Borough of Queens, for the week ending June 29, 1912:

Public Moneys Received During the Week—For restoring pavement over street openings, \$283.66; for vault permits, \$165.70; for sewer connections, \$401.29. Total, \$850.65.

Requisitions Drawn on Comptroller—Bureau of Highways, \$11,048.06; Bureau of Sewers, \$13,059.78; Bureau of Street Cleaning, \$12,774.44; Bureau of Public Buildings and Offices, \$6,465.99; Bureau of Topographical Surveys, \$15,547.02. Total, \$58,895.29.

Permits Issued—To open streets to tap water pipes, 44; to open streets to repair water connections, 15; to open streets to make sewer connections, 22; to open streets to repair sewer connections, 3; to place building material on streets, 22; to construct street vaults, 4; special permits, 27; to cross sidewalks, 12; for subways, steam mains and various connections, 97; for railway construction and repairs, 1; to repair sidewalks, 18; for sewer connections, 30; for sewer repairs, 6; for other purposes, 1. Total, 297.

Bureau of Highways.

Macadamized Streets—Square yards of macadam pavement repaired, 13,194; square yards of macadam pavement cleaned, 28,315; square yards of macadam pavement resanded, 9,859; square yards of macadam road picked up, 5,126; square yards of broken stone spread on picked up bottom, 7,863; square yards of macadam pavement sanded and screened, 5,370; square yards of macadam pavement finished, 11,731; square yards of dirt wings honed, 74,976; loads of screenings used, 222; loads of broken stone used, 690; loads of sand used, 278; loads of wornout material hauled away, 1,346; linear feet of gutters cleaned, 47,408; linear feet of crosswalks removed, 20; loads of dirt put on, 23; square feet of washouts filled in, 82; barrels of tarvia used, 79.

Paved Streets—Square yards of granite pavement repaired, 771; square yards of cobble pavement repaired, 275; square yards of asphalt block pavement repaired, 39; square yards of brick pavement repaired, 206; loads of stone hauled, 54; square feet of flagstones relaid, 324; linear feet of curb reset, 472; square yards of concrete laid, 26; bags of cement used, 10; asphalt blocks used, 516; loads of wornout material hauled away, 71.

Unimproved Streets—Square yards of roadway graded, 3,753; square yards of roadway crowned and repaired, 32,884; square yards of sidewalks graded, 621; loads of dirt hauled away, 686; loads of dirt put on, 2,251; linear feet of gutters formed, 43,704; linear feet of gutters cleaned, 16,640; square yards of roadway raked and cleaned, 4,300; loads of granite chips put on, 49; loads of stone removed, 2.

Trees and Weeds—Dead and dangerous trees and stumps cut down and removed, 4; square yards of weeds cut down and removed, 101; loads of dead limbs hauled away, 21.

New Culverts Built—2 4 feet wide by 42 feet long, 22 planks 2 inches by 12 inches by 16 feet used, 10 rails 2 inches by 4 inches by 18 feet used, 14 pounds of 4-inch nails used, loads of dirt put on, 8; linear feet of culvert opened up, 600.

Miscellaneous—Building blockades, 10 pieces 2 inches by 4 inches by 12 feet used, 12 pieces 4 inches by 4 inches by 6 feet used, 2 pounds of 3-inch nails used.

Bureau of Sewers—Linear feet of sewer cleaned, 1,395; number of basins cleaned, 270; linear feet of sewer flushed, 82,500; number of manholes cleaned, 130; open drains cleaned, 4,150; material used, 1,930 bricks, 14 bags cement; loads removed from sewers, 163; loads removed from basins and drains, 227; loads of sand used, 1.

Street Sweepings, Garbage, etc., Collected and Disposed of—Ashes, loads, 1,153; sweepings, loads, 1,261 1/4; rubbish, loads, 718 3/4; garbage, loads, 1,045; miles of street swept, 86; miles of private street swept, 7; miles of gutters swept, 30.

Bureau of Topographical Surveys.

Work Done by Office Force—Rule Maps: Clark ave., Perry ave., Rust st., Chicago, Toledo, Parcell sts., Medina place, Public place, Britton ave., Elmhurst ave., Skillman, Bryant, Holmes, Longfellow ayes., Irving st., Roosevelt ave., Queens boulevard. Draft Damage Maps: Kimbell ave., Chicago, Toledo and Parcell sts., Medina place, Public place, Britton and Elmhurst ayes. Queens Boulevard, Skillman, Bryant, Holmes and Longfellow ayes., Irving st., Rockaway road, Nagy st., Gosman ave., Ashland st. Profiles: Bryant, Holmes, Longfellow and Roosevelt ayes., Irving st., Chicago, Toledo and Parcell sts., Medina place, Public place, Britton and Elmhurst ayes. Final Damage Maps: Penelope st. and 9th ave. Final Benefit Maps: Newtown road, Van Deventer ave., Poyer st., Alstynne ave. Copying Old Maps and Records: County Clerk's Office. Calculating and plotting of field work.

Work Done by Field Force—Monumenting: Long Island City, Jamaica, Ridgewood, Ozone Park, Queens, South Ozone Park, Aqueduct, Far Rockaway, South Jamaica, Richmond Hill Estate. Location: Jamaica, South Ozone Park, Aqueduct, Far Rockaway, Ridgewood, South Jamaica, Douglaston, College Point. Damage: Eliot ave., Mazeau st., Corona. Survey: College Point, Flushing. Levelling: Motor parkway, Floral Park.

Amount of vouchers certified to the Comptroller during the current week, \$15,547.02.

Bureau of Highways—Foremen, Assistant Foremen, Mechanics and Laborers, 551; teams, 52; horses and carts, 92.

Bureau of Sewers—Foremen, Assistant Foremen, Drivers, Sounders, Mechanics and Laborers, 159; horses and carts, 20.

Bureau of Street Cleaning—District Superintendent, Foremen, Assistant Foremen, Mechanics, Helpers, Drivers, Laborers and Clerks, 274; teams and trucks, 42; teams and sweepers, 6; horses and carts, 127; horses and sprinklers, 7.

Bureau of Public Buildings and Offices—Clerks, Foremen, Engineer, Firemen, Stokers, Carpenters, Plumbers, Pipefitters, Tinsmith, Helpers, Painters, Laborers, Cleaners, Janitors, Mason, Helpers and Attendant, 83.

Bureau of Topographical Surveys—Engineer in Charge, Assistant Engineer, Laborers, Sounders, Rodmen, Drivers, Foremen, Assistant Foremen, Draftsmen, Transmitters, Computers, Riggers, Axemen and Flaggers, 152.

DENIS O'LEARY, Commissioner of Public Works, Borough of Queens.

Commissioner of Public Works.

New York, August 7, 1912.

Report of the transactions of the office of the Commissioner of Public Works, Borough of Queens, for the week ending July 6, 1912:

Public Moneys Received During the Week—For restoring pavement over street openings, \$250.31; for vault permits, \$119.98; for sewer connections, \$339.52. Total, \$709.81.

Requisitions Drawn on Comptroller—Bureau of Highways, \$97,106.71; Bureau of Sewers, \$2,734.35; Bureau of Street Cleaning, \$8,135.75; Bureau of Topographical Surveys, \$693.50. Total, \$108,670.31.

Contracts Awarded—James F. Hill, four contracts.

Permits Issued—To open streets to tap water pipes, 27; to open streets to repair water connections, 13; to open street to make sewer connections, 21; to open streets to repair sewer connections, 1; to place building material on streets, 18; to construct street vaults, 8; special permits, 47; for subways, steam mains and various connections, 69; for railway construction and repairs, 4; to repair sidewalks, 18; for sewer connections, 24; for sewer repairs, 1; to cross sidewalks, 10. Total, 261.

Bureau of Highways.

Macadamized Streets—Square yards of macadam pavement repaired, 5,276; square yards of macadam pavement cleaned, 18,004; square yards of macadam pavement resanded, 6,115; square yards of macadam road picked up, 6,498; square yards of broken stone spread on picked up bottom, 5,852; square yards of macadam pavement sanded and screened, 14,269; square yards of macadam pavement finished, 11,542; square yards of dirt wings honed, 50,087; loads of screenings used, 103; loads of broken stone used, 584; loads of sand used, 1,664; loads of wornout material hauled away, 1,112; linear feet of gutters cleaned, 72,311; barrels of tarvia used, 30; loads of coal used, 1.

Paved Streets—Square yards of granite pavement repaired, 403; loads of sand used in repairs, 72; loads of stone hauled, 16; loads of wornout material hauled away, 17.

Unimproved Streets—Square yards of roadway graded, 18,027; square yards of roadway crowned and repaired, 17,313; square yards of sidewalks graded, 153; loads of dirt hauled away, 572; loads of dirt put on, 1,564; linear feet of gutters formed, 19,460; linear feet of gutters cleaned, 1,200.

Bureau of Sewers—Linear feet of sewer cleaned, 1,650; number of basins cleaned, 98; linear feet of sewer flushed, 28,750; number of manholes flushed, 132; number of manholes cleaned, 30; open drains cleaned, 2,798; loads removed from sewers, 110; loads removed from basins and drains, 119.

Street Sweepings, Garbage, etc., Collected and Disposed of—Ashes, loads, 1,088 1/2; sweepings, loads, 1,189; rubbish, loads, 729 1/2; garbage, loads, 1,095 1/4; miles of street swept, 86; miles of private street swept, 7; miles of gutters swept, 30.

Bureau of Topographical Surveys.

Work Done by Office Force—Rule Maps: Skillman place, Queens boulevard, Clark ave., Perry ave., Rush st., Ashland st. Draft Damage Maps: Whitlock ave., James st., VanCott ave., Queens boulevard, Skillman place, Skillman ave., Rockaway road, Nagy st., Gosman ave., Calamus ave., Chicago, Toledo and Parcell sts., Medina place, Public place, Queens boulevard, Clark ave., Perry ave., Rust st., Kimball ave., Ashland st. Profile Maps: Corona ave., Skillman place, Ashland st. Final Damage Maps: Monroe st., Harold ave., Penelope st. Final Benefit Maps: Penelope st., Newtown road, Harold ave. Copying Old Maps and Records: County Clerk's Office. Calculating and plotting of field work.

Work Done by Field Force—Monumenting: Long Island City, South Ozone Park, Centreville, Aqueduct, South Jamaica, Queens, Douglaston, College Point, Dunton. Location: Douglaston, College Point, Jamaica, Dunton, Flushing. Survey: Flushing, College Point. Levelling: Floral Park. Damage: Blissville, Mazeau st.

Amount of vouchers certified to the Comptroller during the current week, \$693.50.

Bureau of Highways—Foremen, Assistant Foremen, Mechanics and Laborers, 578; teams, 56; horses and carts, 98.

Bureau of Sewers—Foremen, Assistant Foremen, Drivers, Sounders, Mechanics and Laborers, 159; horses and carts, 20.

Bureau of Street Cleaning—District Superintendent, Foremen, Assistant Foremen, Mechanics, Helpers, Drivers, Laborers and Clerks, 274; teams and trucks, 42; teams and sweepers, 6; horses and carts, 129; horses and sprinklers, 7.

Bureau of Public Buildings and Offices—Clerks, Foremen, Engineer, Firemen, Stokers, Carpenters, Plumbers, Pipefitters, Tinsmith, Helpers, Painters, Laborers, Cleaners, Janitors, Mason, Helpers and Attendant, 83.

Bureau of Topographical Surveys—Engineer in Charge, Assistant Engineer, Laborers, Sounders, Rodmen, Drivers, Foremen, Assistant Foremen, Draftsmen, Transmitters, Computers, Riggers, Axemen and Flaggers, 152.

DENIS O'LEARY, Commissioner of Public Works, Borough of Queens.

Department of Health.

Abstract of the Minutes of August 6, 1912.

The Board met pursuant to adjournment. Present, Health Officer of the Port and First Deputy Police Commissioner.

The following premises were declared public nuisances: 253-257 Georgia ave., Borough of Brooklyn; 293-295 Prospect ave., Borough of Brooklyn; 839-841 Sutter ave., Borough of Brooklyn.

The contract for furnishing and delivering as required raw and pasteurized milk, condensed milk, cream and butter-milk to the hospitals and tuberculosis day camps located in the various Boroughs of The City of New York and to the Tuberculosis Sanatorium at Otisville, Orange County, N. Y., from July 1 to December 31, 1912, was awarded as follows:

Class 6, R. F. Stevens Co., 90 3d ave., Brooklyn, \$651; surety, American Surety Company.

Sheffield Farms, Slawson Decker Co., 524 W. 57th st., Manhattan, \$655; sureties, I. A. Van Bomel, 889 St. Nicholas ave., Manhattan; T. W. Decker, 319 W. 88th st., Manhattan. (Class 5.)

Borden's Condensed Milk Company, 108 Hudson st., \$14,915; surety, New England Casualty Company. (Classes 3, 4 and 8.)

Mutual Milk and Cream Company, 214-244 E. 22d st., Manhattan, \$7,903.89; surety, New England Casualty Company. (Classes 1, 2 and 7.)

They being the lowest bidders.

Appointments (paragraph 4 Rule 12)—

Louise Geary, 16 W. 64th st., Manhattan, Nurse, salary \$900 per annum, from August 7, 1912; Mrs. Dora Montgomery, 193 Sheffield ave., Brooklyn, Nurses' Assistant, salary \$480 per annum, from August 7, 1912; Mrs. Teresa Knight, 535 Albany ave., Brooklyn, Nurses' Assistant, salary \$480 per annum, from August 3, 1912; William F. Mentzinger, Jr., 48 Kane ave., Rockaway Beach, Queens, Clerk, salary \$300 per annum, from August 2, 1912; Louise A. Roebuck, 151 E. 54th st., Manhattan, Nurse, salary \$900 per annum, from August 2, 1912; Katherine Bohan, 155 W. 21st st., Manhattan, Nurse, salary \$900 per annum, from August 5, 1912.

Resignation—Louise Clarke, 221 Rodney st., Brooklyn, Nurses' Assistant, from August 1, 1912.

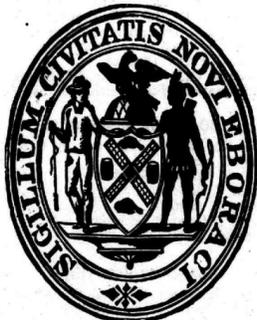
EUGENE W. SCHEFFER, Secretary.

Department of Finance.

Office of the Chamberlain.

August 10—There has been placed in the City Treasury, pursuant to law, the sum of \$2,144.78, the amount of commissions collected by this office from Court and Trust Funds for the month of July, 1912.

R. R. MOORE, Chamberlain.



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 5 p. m.; Saturdays 9 a. m. to 12 m.
Telephone, 8020 Cortlandt.
WILLIAM J. GAYNOR, Mayor.
Robert Adamson, Secretary.
James Matthews, Executive Secretary.
John I. Glennon, Chief Clerk and Bond and Warrant Clerk.

BUREAU OF WEIGHTS AND MEASURES.

Room 7, City Hall, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m.
John L. Walsh, Commissioner.
Telephone, 4334 Cortlandt.

BUREAU OF LICENSES.

9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 4109 Cortlandt.
James G. Wallace, Jr., Chief of Bureau.
Principal Office, Room 1, City Hall.

ARMORY BOARD.

Mayor, William J. Gaynor; the Comptroller William A. Prendergast; the President of the Board of Aldermen, John Purroy Mitchell; Brigadier-General George Moore Smith, Brigadier-General John G. Eddy, Commodore R. P. Forshaw, President of the Department of Taxes and Assessments, Lawson Purdy.
Clark D. Rhinehart, Secretary, Room 6, Basement, Hall of Records, Chambers and Centre streets.

Office hours, 9 a. m. to 4 p. m.; Saturdays, a. m. to 12 m. Telephone, 3900 Worth.

ART COMMISSION.

City Hall, Room 21. Telephone call, 1197 Cortlandt. Robert W. de Forest, Vice-President Metropolitan Museum of Art, President; Francis C. Jones, Painter, Vice-President; Charles Howland Russell, Trustee of New York Public Library, Secretary A. Augustus Healy, President of the Brooklyn Institute of Arts and Sciences; William J. Gaynor, Mayor of The City of New York; R. T. H. Halsey, I. N. Phelps Stokes, Architect; John Bogart; Frank L. Babbott; Karl Bitter, Sculptor. John Quincy Adams, Assistant Secretary.

BOARD OF ALDERMEN.

No. 11 City Hall, 10 a. m. to 4 p. m.; Saturdays 10 a. m. to 12 m. Telephone, 7560 Cortlandt. John Purroy Mitchell, President.

ALDERMEN.

Borough of Manhattan—1st Dist., William Drescher; 2d Dist., Michael Stapleton; 3d Dist., John J. White; 4th Dist., James J. Smith; 5th Dist., Joseph M. Hannon; 6th Dist., Frank J. Dotzler; 7th Dist., Frank L. Dowling; 8th Dist., Max S. Levine; 9th Dist., John F. McCourt; 10th Dist., Hugh J. Cumiskey; 11th Dist., Louis Wendel, Jr.; 12th Dist., William P. Kenneally; 13th Dist., John McCann; 14th Dist., John Loos; 15th Dist., Niles R. Becker; 16th Dist., John T. Eagan; 17th Dist., Daniel M. Bedell; 18th Dist., James J. Nugent; 19th Dist., William D. Brush; 20th Dist., John J. Reardon; 21st Dist., Bryant Willard; 22d Dist., Edward V. Gilmore; 23d Dist., John H. Boschen; 24th Dist., John A. Boles; 25th Dist., Charles Delaney; 26th Dist., Henry H. Curran; 27th Dist., Nathan Lieberman; 28th Dist., Courtlandt Nicoll; 29th Dist., John F. Walsh; 30th Dist., Ralph Folks; 31st Dist., Percy L. Davis; 32d Dist., Michael J. McGrath; 33d Dist., Samuel Marks.

Borough of The Bronx—34th Dist., James L. Devine; 35th Dist., Thomas J. Mulligan; 36th Dist., Thomas H. O'Neil; 38th Dist., Abram W. Herbst; 39th Dist., James Hamilton; 40th Dist., Jacob Weil; 41st Dist., Frederick H. Wilmot.

Borough of Brooklyn—42d Dist., Robert F. Downing; 43d Dist., Michael Carberry; 44th Dist., Frank Cunningham; 45th Dist., John S. Gaynor; 46th Dist., James R. Weston; 47th Dist., John Diemer; 48th Dist., James J. Molten; 49th Dist., Francis P. Kenney; 50th Dist., John J. Meagher; 51st Dist., Ardolph L. Kline; 52d Dist., Daniel R. Coleman; 53d Dist., Frederick H. Stevenson; 54th Dist., Jesse D. Moore; 55th Dist., Frank T. Dixon; 56th Dist., William P. McGarry; 57th Dist., Robert H. Boese; 58th Dist., O. Grant Eterbrook; 59th Dist., George A. Morrison; 60th Dist., Otto Muhlbauer; 61st Dist., William H. Pendry; 62d Dist., Jacob J. Velten; 63d Dist., Edward Eichhorn; 64th Dist., Henry F. Grimm; 65th Dist., James F. Martyn.

Borough of Queens—66th Dist., George M. O'Connor; 67th Dist., Otto C. Gelbke; 68th Dist., Alexander Dujst; 69th Dist., Charles Augustus Post; 70th Dist., W. Augustus Shipley.

Borough of Richmond—71st Dist., William Fink; 72d Dist., John J. O'Rourke; 73d Dist., Charles F. Cole. P. J. Scully, City Clerk.

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; John G. O'Keefe, Arden M. Robbins, James A. Farley, Samuel Sachs, Leopold Stern; Michael J. Drummond, ex-officio. General Medical Superintendent, Dr. George O'Hanlon.

BOARD OF AMBULANCE SERVICE.

Headquarters, 300 Mulberry street. Office hours, 9 a. m. to 4 p. m.; Saturdays 12 m. President, Commissioner of Police, R. Waldo. Secretary, Commissioner of Public Charities, M. J. Drummond; Dr. John W. Brannan, President of the Board of Trustees of Bellevue and Allied Hospitals; Dr. Royal S. Copeland, Wm. I. Sprengelberg, D. C. Forer, Director. Ambulance Calls—Telephone, 3100 Spring. Administration Offices—Telephone, 7588 Spring.

BOARD OF ASSESSORS.

Office, No. 320 Broadway, 9 a. m. to 5 p. m. Saturdays, 12 m. Joseph P. Hennessy, President. William C. Ormond. Antonio C. Astarita. Thomas J. Brennan, Secretary. Telephone, 29, 30 and 31 Worth.

BOARD OF ELECTIONS.

General Office, No. 107 West Forty-first street. Commissioners: J. Gabriel Britt, President Moses M. McKee, Secretary; James Kane and Jacob A. Livingston. Michael T. Daly, Chief Clerk. Telephone, 2946 Bryant.

BOROUGHS OFFICES.

Manhattan. No. 112 West Forty-second street. William C. Baxter, Chief Clerk. Telephone, 2946 Bryant. The Bronx. One Hundred and Thirty-eighth street and Morris avenue (Sollgen Building). John L. Burgoyne, Chief Clerk. Telephone, 336 Melrose. Brooklyn. No. 42 Court street (Temple Bar Building). George Russell, Chief Clerk. Telephone, 693 Main. Queens. No. 64 Jackson avenue, Long Island City. Carl Voegel, Chief Clerk. Telephone, 3375 Hunters Point. Richmond. Borough Hall, New Brighton, S. I. Alexander M. Ross, Chief Clerk. Telephone, 1000 Tompkinsville. All offices open from 9 a. m. to 4 p. m. Saturdays, from 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.

Joseph Haag, Secretary; William M. Lawrence Assistant Secretary; Charles V. Adee, Clerk to Board. No. 277 Broadway, Room 1406. Telephone, 2280 Worth.

OFFICE OF THE CHIEF ENGINEER.

Nelson P. Lewis, Chief Engineer. Arthur S. Tuttle, Assistant Chief Engineer. No. 277 Broadway, Room 1408. Telephone, 2281 Worth.

BUREAU OF FRANCHISES.

Harry P. Nichols, Engineer, Chief of Bureau 277 Broadway, Room 801. Telephone, 2282 Worth.

Office hours, 9 a. m. to 5 p. m. (except during July and August, when hours are 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. Members: William George A. Just, Chairman. Members: William Crawford, Lewis Harding, Charles G. Smith John P. Leo, Robert Maynicka, and John Kenlon Edward V. Barton, Clerk. Board meeting every Tuesday at 2 p. m.

BOARD OF INEBRIETY.

Office, 300 Mulberry street, Manhattan. Thomas J. Colton, President; Rev. William Morrison, Secretary; John Dornin, M. D.; Rev. John J. Hughes; William Browning, M. D.; Michael J. Drummond, Commissioner of Public Charities. Patrick A. Whitney, Commissioner of Correction Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Board meets first Wednesday in each month, at 4 o'clock. Telephone, 7116 Spring.

BOARD OF PAROLE OF THE NEW YORK CITY REFORMATORY OF MISDEMEANANTS.

Office, No. 148 East Twentieth street. Patrick A. Whitney, Commissioner of Correction, President. John B. Mayo, Judge, Special Sessions, Manhattan. Robert J. Wilkin, Judge, Special Sessions, Brooklyn. Frederick B. House, City Magistrate, First Division. Edward J. Dooley, City Magistrate, Second Division. Samuel B. Hamburger, John Helsta, Rosario Maglio, Richard E. Troy. Thomas R. Minnick, Secretary. Telephone, 1047 Gramercy.

BOARD OF REVISION OF ASSESSMENTS.

William A. Prendergast, Comptroller. Archibald R. Watson, Corporation Counsel. Lawson Purdy, President of the Department of Taxes and Assessments. John Korb, Jr., Chief Clerk, Finance Department, No. 280 Broadway. Telephone, 1200 Worth.

BOARD OF WATER SUPPLY.

Office, No. 165 Broadway. Charles Strauss, President; Charles N. Chadwick and John P. Galvin, Commissioners. Joseph P. Morrissey, Secretary. J. Waldo Smith, Chief Engineer. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 4310 Cortlandt.

CHANGE OF GRADE DAMAGE COMMISSION.

Office of the Commission, Room 223, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City. William D. Dicke, Cambridge Livingston, David Robinson, Commissioner. Lamont McLoughlin, Clerk. Regular advertised meetings on Monday, Tuesday and Thursday of each week at 2 o'clock p. m. Office hours, 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 3284 Worth.

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. Scully, Clerk, Borough of Brooklyn. Matthew McCabe, Deputy City Clerk, Borough of The Bronx. George D. Frens, 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, 8th floor, Park Row Building No. 21 Park Row. David Ferguson, Supervisor. Henry McKillen, Deputy Supervisor. C. McKemie, Secretary. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Distributing Division, Nos. 96 and 98 Reade street, near West Broadway. Telephone, 1808 and 1806 Cortlandt.

COMMISSIONER OF ACCOUNTS.

Raymond B. Fosdick, Commissioner of Accounts. Rooms 114 and 115, Stewart Building, No. 280 Broadway, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 4315 Worth. The Standard Testing Laboratory, Otto H. Klein, Director. 127 Franklin street; office hours, 9 a. m. to 5 p. m. Saturdays, 9 a. m. to 12 m. Telephone, 2943 Franklin and 1200 Worth.

COMMISSIONER OF LICENSES.

Office, No. 277 Broadway. Herman Robinson, Commissioner. Samuel Prince, Deputy Commissioner. John J. Caldwell, Secretary. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 2828 Worth.

COMMISSIONERS OF SINKING FUND.

William J. Gaynor, Mayor, Chairman; Moore A. Prendergast, Comptroller; Robert R. Moore Chamberlain; John Purroy Mitchell, President of the Board of Aldermen, and Henry H. Curran; Chairman Finance Committee, Board of Aldermen; members: John Korb, Jr., Secretary. Office of Secretary, Room 9, Stewart Building No. 280 Broadway, Borough of Manhattan. Telephone, 1200 Worth.

DEPARTMENT OF BRIDGES.

Nos. 13-21 Park Row. Arthur J. O'Keefe, Commissioner. William H. Sinnott, Deputy Commissioner. Edgar E. Schiff, Secretary. Office hours, 9 a. m. to 5 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 5 p. m.; Saturdays, 9 a. m. to 12 m.

Telephone, 1047 Gramercy. Patrick A. Whitney, Commissioner. William J. Wright, Deputy Commissioner. John B. Fitzgerald, Secretary.

DEPARTMENT OF DOCKS AND FERRIES.

Pier "A" N. R., Battery place. Telephone, 300 Rector. Calvin Tomkins, Commissioner. B. F. Cresson, Jr., First Deputy Commissioner. William J. Barney, Second Deputy Commissioner. Matthew J. Harrington, Secretary. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m.

DEPARTMENT OF EDUCATION.

BOARD OF EDUCATION. Park avenue and Fifty-ninth street, Borough of Manhattan, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 5880 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., Reba C. Bamberger (Mrs.), Joseph Barondess, Nicholas J. Barrett, Thomas W. Churchill, Joseph B. Cosgrove, Francis P. Cunneen, Thomas M. De Laney, Martha Lincoln Draper (Miss), Alexander Ferris, George J. Gillespie, John Greene, Robert L. Harrison, Louis Haupt, M. D.; Ella W. Kramer, (Mrs), Olivia Leventritt (Miss), Isadore M. Levy, Morris Loeb, Jeremiah T. Mahoney, Alrick H. Man, John Martin Robert E. McCafferty, Dennis J. McDonald, M. D.; Patrick F. McGowan, Herman A. Metz, Augustus G. Miller, George C. Miller, Henry P. Morrison, Louis Newman, Antonio Pisan, M. D. Alice Lee Post (Mrs.), Arthur S. Somers, Abraham Stern, M. Samuel Stern, Ernest W. Stratmann, Cornelius J. Sullivan, James E. Sullivan, Michael J. Sullivan, Bernard Szydman, Rupert B. Thomas, John R. Thompson, John Whalen, Frank D. Wiley, George W. Wingate, Egerton L. Winthrop, Jr., members of the Board.

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. Leisiger, 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. Meineny, Thomas S. O'Brien, Edward B. Mallow, Edward L. Stevens, Gustave Straubmuller, John H. Walsh, Associate City Superintendents.

DISTRICT SUPERINTENDENTS.

Darwin L. Bardwell, William A. Campbell, John W. Davis, John Dwyer, James M. Edsall, Matthew J. Elias, William L. Ettinger, Cornelius E. Franklin, John Griffin, M. D., Ruth E. Granger, Henry W. Jameson, Henry E. Jenkins, James Lee, Charles W. Lyon, James J. McCabe, William J. O'Shea, Alfred T. Schaeffer, Albert Shiels, Edgar Dubs Shimer, Seth T. Stewart, Edward W. Stitt, Grace C. Strachan, Joseph S. Taylor, Benjamin Velt, Joseph H. Wade (One vacancy).

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.

BOARD OF RETIREMENT.

Egerton L. Winthrop, Jr., Abraham Stern, Cornelius J. Sullivan, William H. Maxwell, Josephine E. Rogers, Mary A. Curtis, Lyman A. Best, Principal P. S. 108, Brooklyn, Secretary. (Telephone, 1470 East New York.)

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. WILLIAM A. PRENDERGAST, Comptroller. Douglas Mathewson and Edmund D. Fisher, Deputy Comptrollers. Hubert L. Smith, Assistant Deputy Comptroller. George L. Tirrell, Secretary to the Department. Thomas W. Hynes, Supervisor of Charitable Institutions. Walter S. Wolfe, Chief Clerk.

BUREAU OF AUDIT.

Charles S. Hervey, Chief Auditor of Accounts Room 29. Harry York, Deputy Chief Auditor of Accounts. Duncan MacInnes, Chief Accountant and Bookkeeper. John J. Kelly, Auditor of Disbursements. H. H. Rashyn, Auditor of Receipts. James Munro, Chief Inspector. R. B. McIntyre, Examiner in Charge, Expert Accountants' Division.

LAW AND ADJUSTMENT DIVISION.

Albert E. Hadlock, Auditor of Accounts. Room 185. BUREAU OF MUNICIPAL INVESTIGATION AND STATISTICS. James Tilden Adamson, Supervising Statistician and Examiner. Room 180. STOCK AND BOND DIVISION. James J. Sullivan, Chief Stock and Bond Clerk. Room 85. OFFICE OF THE CITY PAYMASTER. No. 83 Chambers street and No. 65 Reade street. John H. Timmerman, City Paymaster. DIVISION OF REAL ESTATE. Charles A. O'Malley, Appraiser of Real Estate. Room 103, No. 280 Broadway. DIVISION OF AWARDS. Joseph R. Kenny, Bookkeeper in Charge. Rooms 155 and 157, No. 280 Broadway.

BUREAU FOR THE COLLECTION OF TAXES.

Borough of Manhattan—Stewart Building, Room O. Frederick H. E. Ebsteln, Receiver of Taxes. John J. McDonough and Sylvester L. Malone, Deputy Receivers of Taxes. Borough of The Bronx—Municipal Building, Third and Tremont avenues. Edward H. Healy and John J. Knebits, Deputy Receivers of Taxes. Borough of Brooklyn—Municipal Building Rooms 2-3. Alfred J. Boulton and David E. Kemlo, Deputy Receivers of Taxes. Borough of Queens—Municipal Building, Court House Square, Long Island City. William A. Beadle and Thomas H. Green, Deputy Receivers of Taxes. Borough of Richmond—Borough Hall, St. George, New Brighton. John De Morgan and Edward J. Lovett, Deputy Receivers of Taxes.

BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS.

Borough of Manhattan, Stewart Building, Room E. Daniel Moynahan, Collector of Assessments and Arrears. George W. Wanmaker, Deputy Collector of Assessments and Arrears. Borough of The Bronx—Municipal Building, Rooms 1-3.

Charles P. Bradbury, Deputy Collector of Assessments and Arrears. Borough of Brooklyn—Mechanics' Bank Building, corner Court and Montague streets. Theodore G. Christmas, Deputy Collector of Assessments and Arrears. Borough of Queens—Municipal Building, Court House Square, Long Island City. Peter L. Menninger, Deputy Collector of Assessments and Arrears. Borough of Richmond—St. George, New Brighton. Edward W. Berry, Deputy Collector of Assessments and Arrears.

BUREAU FOR THE COLLECTION OF CITY REVENUE AND OF MARKETS.

Stewart Building, Chambers street and Broadway, Room K. Sydney H. Goodacre, Collector of City Revenue and Superintendent of Markets. BUREAU OF THE CHAMBERLAIN. Stewart Building, Chambers street and Broadway, Rooms 63 to 67. Robert R. Moore, Chamberlain. Henry J. Walsh, Deputy Chamberlain. Office hours, 9 a. m. to 5 p. m. Telephone, 4270 Worth.

DEPARTMENT OF HEALTH.

Centre and Walker streets, Manhattan. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Burial Permit and Contagious Disease Offices always open. Telephone, 6280 Franklin. Ernest J. Lederle, Ph. D., Commissioner of Health and President; Joseph J. O'Connell, M. D.; Rhinander Waldo, Commissioners. Eugene W. Scheffer, Secretary. Herman M. Biggs, M. D., General Medical Officer. Walter Bensele, M. D., Sanitary Superintendent. William H. Gullifoy, M. D., Registrar of Records. James McC. Miller, Chief Clerk. Borough of Manhattan. Alonso Blauvelt, M. D., Assistant Sanitary Superintendent; George A. Roberts, Assistant Chief Clerk; Shirley W. Wynne, M. D., Assistant Registrar of Records. Borough of The Bronx, No. 3731 Third avenue. Marlon B. McMillan, M. D., Assistant Sanitary Superintendent; Ambrose Lee, Jr., Assistant Chief Clerk; Arthur J. O'Leary, M. D., Assistant Registrar of Records. Borough of Brooklyn, Flatbush avenue, Willoughby and Fleet streets. Travers R. Maxfield, M. D., Assistant Sanitary Superintendent; Alfred T. Metcalfe, Assistant Chief Clerk; S. J. Byrne, M. D., Assistant Registrar of Records. Borough of Queens, Nos. 373 and 374 Fulton streets, Jamaica. John H. Barry, M. D., Assistant Sanitary Superintendent; George R. Crowl, Assistant Chief Clerk; Robert Campbell, M. D., Assistant Registrar of Records. Borough of Richmond, No. 514 Bay street, Stapleton, Staten Island. John T. Sprague, M. D., Assistant Sanitary Superintendent; Charles E. Hoyer, Assistant Chief Clerk.

DEPARTMENT OF PARKS.

Charles B. Stover, Commissioner of Parks for the Boroughs of Manhattan and Richmond, and President Park Board. Clifton H. Smith, Secretary. Offices, Arsenal, Central Park. Telephone, 7300 Plaza. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Michael J. Kennedy, Commissioner of Parks for the Borough of Brooklyn. Offices, Litchfield Mansion, Prospect Park, Brooklyn. Office hours, 9 a. m. to 5 p. m.; July and August a. m. to 4 p. m. Telephone, 2300 South. Thomas J. Higgins, Commissioner of Parks of the Borough of The Bronx. Office, Zbrowski Mansion, Claremont Park. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 2640 Tremont. Walter G. Elliot, Commissioner of Parks for the Borough of Queens. Temporary office, Arsenal, Central Park, Manhattan. PERMANENT CENSUS BOARD. Hall of Board of Education, No. 800 Park avenue, third floor. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. The Mayor, City Superintendent of Schools and Police Commissioner. George H. Chatfield, Secretary. Telephone, 5752 Plaza.

DEPARTMENT OF PUBLIC CHARITIES.

PRINCIPAL OFFICE. Foot of East Twenty-sixth street, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 7400 Madison Square. Michael J. Drummond, Commissioner. Frank J. Goodwin, First Deputy Commissioner, William J. McKenna, Third Deputy Commissioner. Thomas L. Fogarty, Second Deputy Commissioner for Brooklyn and Queens, Nos. 327 to 331 Schermerhorn street, Brooklyn. Telephone, 2877 Main. J. McKee Borden, Secretary. Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Buildings, Repairs and Supplies, Bills and Accounts 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Bureau of Dependent Adults, foot of East Twenty-sixth street. Office hours, 9 a. m. to 5 p. m. The Children's Bureau, No. 124 East 89th street. Office hours, 9 a. m. to 5 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 F. Lynch, Deputy Commissioner, Borough of Manhattan. Julian Scott, Deputy Commissioner, Borough of Brooklyn. James F. O'Brien, 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; Chas. J. McCormack, John J. Halleran, Charles T. White, Daniel S. McElroy, Edward Kaufmann, Judson G. Wall. Telephone, 3900 Worth.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Nos. 13 to 21 Park Row, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Telephone: Manhattan, 5962 Cortlandt; Brook-

lyn, 3980 Main; Queens, 1990 Greenpoint; Richmond, 840 Tompkinsville; Bronx, 3400 Tremont. Henry S. Thompson, Commissioner. J. W. F. Bennett, Deputy Commissioner. Frederic T. Parsons, Deputy Commissioner, Borough of Brooklyn. Municipal Building, Brooklyn.

John L. Jordan, Deputy Commissioner, Borough of the Bronx, Municipal Building, The Bronx. M. P. Walsh, Deputy Commissioner, Borough of Queens, Municipal Building, Long Island City. John E. Bowe, Deputy Commissioner, Borough of Richmond, Municipal Building, St. George.

EXAMINING BOARD OF PLUMBERS. Edwin Hayward, President. James J. Donahue, Secretary. August C. Schwager, Treasurer. Rooms Nos. 14, 15 and 16, Aldrich Building Nos. 149 and 151 Church street. Telephone, 6472 Barclay.

FIRE DEPARTMENT. Headquarters: Office hours for all, from 9 a. m. to 5 p. m.; Saturdays, 12 m. Central offices and fire stations open at all hours.

Headquarters of Department, Nos. 157 and 159 East 67th street, Manhattan. Telephone, 640 Plaza. Brooklyn office, Nos. 365 and 367 Jay street, Brooklyn. Telephone, 2653 Main. Joseph Johnson, Commissioner. George W. Olvany, Deputy Commissioner. Phillip P. Farley, Deputy Commissioner, Boroughs of Brooklyn and Queens.

LAW DEPARTMENT. OFFICE OF CORPORATION COUNSEL. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Main office, Hall of Records, Chambers and Centre streets, 6th and 7th floors. Telephone, 4600 Worth.

Archibald R. Watson, Corporation Counsel. Assistants—Theodore Connolly, George L. Sterling, Charles D. Olenford, William P. Burr, R. Percy Chittenden, William Beers Crowell, John L. O'Brien, Terence Farley, Edward J. McGoldrick, David S. Garland, Curtis A. Peters, John P. O'Brien, Edward S. Malone, Edwin J. Freedman, Louis H. Hablo, Frank B. Pierce, Richard H. Mitchell, John Wildecumbe, Arthur Sweeney, William H. King, George P. Nicholson, Dudley F. Malone, Charles J. Nehrbas, William J. O'Sullivan, Harford P. Walker, Josiah A. Stover, Arnold C. Well, Francis J. Byrne, John Lehman, Francis Martin, Charles McIntyre, Clarence L. Barber, Alfred W. Booraem, George H. Cowie, Solon Berrick, James P. O'Connor, Elliott S. Benedict, Isaac Phillips, Edward A. McShane, Eugene Fay, Ricardo M. DeAcosta, John M. Barrett, Frank P. Rolly, Leon G. Godley, Alexander C. MacNulty, Samuel Hoffmann, John W. Goff, Jr., William R. Wilson, Jr., Secretary to the Corporation Counsel—Edmund Kirby, Jr.

BUREAU OF STREET OPENINGS. Main office, No. 90 West Broadway. Telephone, 5070 Barclay. Joel J. Squier, Assistant in charge.

Brooklyn branch office, No. 166 Montague street. Telephone, 3670 Main. Edward Riegelmann, Assistant in charge. Queens branch office, Municipal Building, Court House Square, Long Island City. Telephone, 3886 Hunter's Point. Walter C. Sheppard, Assistant in charge.

BUREAU FOR THE RECOVERY OF PENALTIES. No. 119 Nassau street. Telephone, 4526 Cortlandt. Herman Stiefel, Assistant in charge.

BUREAU FOR THE COLLECTION OF ARREARS OF PERSONAL TAXES. No. 280 Broadway, 5th floor. Telephone, 4584 Worth. Geo. O'Reilly, Assistant in charge.

TENEMENT HOUSE BUREAU AND BUREAU OF BUILDINGS. No. 44 East Twenty-third street. Telephone, 961 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. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 169 Rector.

MUNICIPAL CIVIL SERVICE COMMISSION. No. 299 Broadway, 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 m. James Creelman, President; Richard Welling and Alexander Keogh, Commissioners. Frank A. Spencer, Secretary.

LABOR BUREAU. Nos. 54-60 Lafayette street. Telephone, 2140 Worth.

MUNICIPAL EXPLOSIVES COMMISSION. Nos. 157 and 159 East 67th street, Headquarters Fire Department. Joseph Johnson, Fire Commissioner and ex-officio Chairman; Geo. O. Eaton, Sidney Harris, Bartholomew Donovan, Russell W. Moore, R. S. Lundy, Secretary. Meetings at call of Fire Commissioners.

POLICE DEPARTMENT. CENTRAL OFFICE. No. 240 Centre street, 9 a. m. to 5 p. m. (months of June, July and August, 9 a. m. to 4 p. m.) Saturdays, 9 a. m. to 12 m. Telephone, 3100 Spring. Rhinelander Waldo, Commissioner. Douglas I. McKay, First Deputy Commissioner. George S. Dougherty, Second Deputy Commissioner. John J. Walsh, Third Deputy Commissioner. James E. Dillon, Fourth Deputy Commissioner. William H. Kipp, Chief Clerk.

PUBLIC RECREATION COMMISSION. 51 Chambers Street; Room 1001. James E. Sullivan, President; General George W. Wingate, Charles B. Stover, Mrs. V. G. Simkovich, Gustavus T. Kirby, George D. Pratt, Robert

Gilman; Bascom Johnson, Secretary; Cyril H. Jones, Assistant Secretary. Office hours, 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 1471 Worth. Commission meeting every Tuesday at 4.30 p. m.

PUBLIC SERVICE COMMISSION. The Public Service Commission for the First District, Tribune Building, No. 164 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 12 m., in the Public Hearing Room of the Commission, third floor of the Tribune Building, unless otherwise ordered.

TENEMENT HOUSE DEPARTMENT. John J. Murphy, Commissioner, Manhattan. Office, 44 East 23d street. Telephone, 5331 Gramercy. William H. Abbott, Jr., First Deputy Commissioner. Brooklyn office (Boroughs of Brooklyn, Queens and Richmond), 503 Fulton street. Telephone, 3825 Main. Frank Mann, Second Deputy Commissioner. Bronx office, 391 East 149th street. Telephone, 7107-7108 Melrose. William B. Calvert, Superintendent. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.

BOROUGH OFFICES. BOROUGH OF MANHATTAN. Office of the President, Nos. 14, 15 and 16 City Hall, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. George McAneny, President. Leo Arnstein, Secretary of the Borough. Julian B. Beatty, Secretary to the President. Edgar Victor Frothingham, Commissioner of Public Works. W. R. Patterson, Assistant Commissioner of Public Works. Rudolph P. Miller, Superintendent of Buildings. Buildings and Offices.

BOROUGH OF THE BRONX. Office of the President, corner Third avenue and One Hundred and Seventy-seventh street; 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Cyrus C. Miller, President. George Donnelly, Secretary. Thomas W. Whittle, Commissioner of Public Works. James A. Henderson, Superintendent of Buildings. Arthur J. Lary, Superintendent of Highways. Roger W. Bligh, 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. Alfred E. Steers, President. Reuben L. Haskell, Borough Secretary. John B. Creighton, Secretary to the President. Lewis H. Pounds, Commissioner of Public Works. Patrick J. Carlin, Superintendent of Buildings. William J. Taylor, Superintendent of the Bureau of Sewers. Howard L. Woody, Superintendent of the Bureau of Public Buildings and Offices. John W. Tumbridge, Superintendent of Highways. Telephone, 3960 Main.

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. Telephone, 4120 Hunter's Point. Maurice E. Connolly, President. Joseph Flanagan, Secretary. Denis O'Leary, Commissioner of Public Works. G. Howland Leavitt, Superintendent of Highways. John W. Moore, Superintendent of Buildings. John R. Higgins, Superintendent of Sewers. Daniel Ehntholt, Superintendent of Street Cleaning. Superintendent of Public Buildings and Offices, Flushing. Telephone, 1740 Flushing.

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. John Seaton, Superintendent of Buildings. H. E. Buel, Superintendent of Highways. John T. Petherston, Assistant Engineer and Acting Superintendent of Street Cleaning. Ernest H. Seehusen, Superintendent of Sewers. John Timils, Jr., Superintendent of Public Buildings and Offices. Office, Borough Hall, New Brighton, N. Y., 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 1000 Tompkinsville.

CORONERS. Borough of Manhattan—Office, 70 Lafayette street, corner of Franklin street. Open at all times of the day and night. Coroners: Israel L. Feinberg, Herman Hellenstein, James E. Winterbottom, Herman W. Holtschauer. Telephone, 5057, 5058 Franklin. Borough of the Bronx—Corner of Third avenue and Tremont avenue. Telephone, 1250 Tremont and 1402 Tremont. Jacob Shongut, Jerome F. Healy. Borough of Brooklyn—Office, 236 Dufield street, near Fulton street. Telephone, 4004 Main and 4005 Main. Alexander J. Rooney, Edward Gilman, Coroners. Open all hours of the day and night. Borough of Queens—Office, Town Hall, Fulton street, Jamaica, L. I. Alfred S. Ambler, G. J. Schaefer. Office hours from 9 a. m. to 10 p. m., excepting Sundays and holidays; office open then from 9 a. m. to 12 m. Borough of Richmond—No. 175 Second street, New Brighton. Open all hours of the day and night. William H. Jackson, Coroner. 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, 341 Worth.

COMMISSIONER OF RECORDS. Office, Hall of Records. William S. Andrews, Commissioner. James O. Farrell, Deputy Commissioner. William Moore, Superintendent. James J. Fleming, Jr., Secretary. Telephone, 3900 Worth. Office hours, 9 a. m. to 5 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.

COUNTY CLERK. Nos. 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. During the months of July and August the hours are from 9 a. m. to 2 p. m. except on Saturdays. William F. Schneider, County Clerk. Charles E. Gehring, Deputy. Wm. B. Selden, Second Deputy. Herman W. Beyer, Superintendent of Indexing and Recording. Telephone, 5388 Cortlandt.

DISTRICT ATTORNEY. Building for Criminal Courts, Franklin and 11th streets. Office hours from 9 a. m. to 5 p. m.; Saturdays 9 a. m. to 12 m. Charles S. Whitman, District Attorney. Henry D. Sayer, Chief Clerk. Telephone, 2304 Franklin.

PUBLIC ADMINISTRATOR. No. 119 Nassau street, 9 a. m. to 4 p. m.; Saturdays, 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. Max S. Grienhagen, Register. William H. Giffin, 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. Julius Harburger, Sheriff. John F. Gilchrist, Under Sheriff. Telephone, 4984 Worth.

SURROGATES. 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. John P. Cahalan and Robert L. Fowler, Surrogates; William V. Leary, Chief Clerk. Bureau of Records: John F. Curry, Commissioner; Charles W. Calkin, Deputy Commissioner; George F. Scannell, Superintendent. Telephone, 3900 Worth.

KINGS COUNTY. COMMISSIONER OF JURORS. Park Building, 381-387 Fulton street, Brooklyn. Thomas R. Farrell, Commissioner. Michael J. Trudden, 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, 1484 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. Charles H. Craft, Commissioner. William F. Thompson, Deputy Commissioner. Telephone, 6983 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. Charles S. Devoy, County Clerk. John Feltner, Deputy County Clerk. Telephone call, 4930 Main.

COUNTY COURT. County Court House, Brooklyn, Rooms 1, 10, 14, 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; Part III., Room No. 14; Part IV., Room No. 1. Court House, Clerk's office, Rooms 17, 18, 19 and 22, open daily from 9 a. m. to 5 p. m.; Saturdays, 12 m. Norman S. Dike and Lewis L. Fawcett, County Judges. John T. Rafferty, Chief Clerk. Telephone, 4154 and 4155 Main.

DISTRICT ATTORNEY. Office, 86 Court street, Borough of Brooklyn. Hours, 9 a. m. to 5.30 p. m.; Saturdays, 9 a. m. to 1 p. m. James C. Crosey, District Attorney. Telephone number, 2954-5-6-7 Main.

PUBLIC ADMINISTRATOR. No. 44 Court street (Temple Bar), Brooklyn 9 a. m. to 5 p. m. Frank V. Kelly, 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. Edward T. O'Loughlin, Register. Alfred T. Hobbey, Deputy Register. Telephone, 2830 Main.

SHERIFF. Temple Bar Building, 186 Rensselaer street, Room 401, Brooklyn, N. Y. 9 a. m. to 4 p. m.; Saturdays, 12 m. Charles B. Law, Sheriff. Lewis M. Swasey, Under Sheriff. Telephone, 6845, 6846, 6847 Main.

SURROGATE. Hall of Records, Brooklyn, N. Y. Herbert T. Ketcham, Surrogate. John H. McCooey, Chief Clerk and Clerk to the Surrogate's Court.

Court opens at 10 a. m. Office hours, 9 a. m. to 4 p. m., except during months of July and August, when office hours are from 9 a. m. to 3 p. m.; Saturdays, 9 a. m. to 12 m.; Telephone, 3964 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. George H. Creed, Commissioner of Jurors. Rodman Richardson, Assistant Commissioner. 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.; Saturdays, 9 a. m. to 12 m. Martin Mager, County Clerk. Telephone, 151 Jamaica.

COUNTY COURT. 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. Burt J. Humphrey, County Judge. Telephone, 551 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. County Judge's office always open at No. 336 Fulton street, Jamaica, N. Y. Matthew J. Smith, District Attorney. Telephone, 3871 and 3872 Hunter's Point.

PUBLIC ADMINISTRATOR. No. 364 Fulton street, Jamaica, Queens County. Randolph White, Public Administrator, County of Queens. Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone 397 Jamaica.

SHERIFF. County Court House, Long Island City, 9 a. m. to 4 p. m.; during July and August, 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m. Thomas M. Quinn, Sheriff. John M. Phillips, Under Sheriff. Telephone, 3766-7 Hunter's Point (office). Henry O. Schieth, Warden. Telephone, 4161 Hunter's Point.

SURROGATE. Daniel Noble, Surrogate. Office, No. 364 Fulton street, Jamaica. Except on Sundays, holidays and half-holiday, the office is open from 9 a. m. to 4 p. m.; Saturdays, from 9 a. m. to 12 m. July and August, 9 a. m. to 2 p. m. The calendar is called on each week day 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.; Saturdays, 9 a. m. to 12 m. C. Livingston Botwick, County Clerk. Telephone, 28 New Dorp.

COUNTY JUDGE AND SURROGATE. County Court—J. Harry Tiernan, County Judge. Terms of the County Court. First Monday of March and first Monday of October, 1912, with a Grand and Trial Jury. First Monday of May and first Monday of December, 1912, with a Trial Jury only. On Wednesdays of each week at Richmond (except during the month of August). Surrogate's Court—J. Harry Tiernan, Surrogate. Court days: Mondays and Tuesdays, at the Surrogate's Office in the Borough Hall, St. George; and Wednesdays, at the Surrogate's Office, Richmond, at 10.30 a. m., on which citations and orders are returnable, except during the month of August, and except on days when jury terms of the County Court are held. Telephones, 233 New Dorp, 1000 Tompkinsville—Court Room.

DISTRICT ATTORNEY. Borough Hall, St. George, S. I. Albert C. Fach, District Attorney. Telephone, 50 Tompkinsville. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.

PUBLIC ADMINISTRATOR. Office, Port Richmond. William T. Holt, Public Administrator. Telephone, 704 West Brighton.

SHERIFF. County Court House, Richmond, S. I. John J. Collins, Sheriff; Peter J. Finn, Jr., Under-Sheriff. Office hours, 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 m. Telephone, 120 New Dorp.

THE COURTS. APPELLATE DIVISION OF THE SUPREME COURT. FIRST JUDICIAL DEPARTMENT. Court House, Madison avenue, corner Twenty fifth street. Court open from 2 p. m. until 6 p. m. Friday, Motion Day, Court opens at 10.30 a. m. Motions called at 10 a. m. Orders called at 10.30 a. m.

George L. Ingraham, Presiding Justice; Chester B. McLaughlin, Frank C. Laughlin, John Proctor Clarke, Francis M. Scott, Nathan L. Miller, Victor J. Dowling, Justices; Alfred Wagstaff, Clerk. Clerk's Office opens 9 a. m. Telephone, 3340 Madison Square.

SUPREME COURT—FIRST DEPARTMENT.

County Court House, Chambers street. Court open from 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. 21. Special Term, Part VI, Room No. 31. Trial Term, Part I, Room No. 32. Trial Term, Part II, Room No. 33. Trial Term, Part III, Room No. 21. Trial Term, Part IV, Room No. 24. Trial Term, Part V, Room No. 18. Trial Term, Part VI, Room No. 18. Trial Term, Part VII, Room No. 18. Trial Term, Part VIII, Room No. 22. 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. 27. 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. 27. 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 northeast 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—Henry Blochoff, Leonard A. Giegerich P. Henry Dugro, James Fitzgerald, James A. Blanchard, Samuel Greenbaum, Edward E. McCall, Edward B. Amend, Vernon M. Davis, Joseph E. Newburger, John W. Goff, Samuel Seabury M. Warley Platzek, Pe. r A. Hendrick, John Ford, John J. Brady, Mitchell L. Brieger, Charles L. Guy, James W. Gerard, Irving Lehman, Alfred R. Pelay, Edward J. Gavegan, Nathan Bljurn, John J. Delany, Francis K. Pendleton, Daniel F. Cohalan, Henry D. Hotchkiss. Telephone, 4880 Cortland.

SUPREME COURT—CRIMINAL DIVISION.

Building for Criminal Courts, Centre, Elm, White and Franklin streets. Court opens at 10.30 a. m. William F. Schneider, 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. During July and August, Clerk's Office will close at 2 p. m. Telephone, 6064 Franklin.

APPELLATE DIVISION, SUPREME COURT.

Court House, Borough Hall, Brooklyn. Court meets from 1 p. m. to 5 p. m., except that on Fridays court opens at 10 o'clock a. m. Almet F. Jenks, Presiding Justice; Michael H. Hirschberg, Joseph A. Burr, Edward B. Thomas, William J. Carr, John Woodward, Adelbert P. Rich, Justices. John B. Byrne, Clerk; Clarence A. Barrow, Deputy Clerk. Motion days, first and third Mondays of each Term. Clerk's office opens 9 a. m. Telephone, 1392 Main. John B. Byrne, Clerk.

APPELLATE TERM—SUPREME COURT.

Court Room, 503 Fulton street, Brooklyn. Court meets 10 a. m. October Term begins October 7, 1912. Justices Frederick E. Crane, Joseph Aspinali, Harrington Putnam, Joseph H. DeBragga, Clerk; Owen J. Macaulay, Deputy Clerk. Clerk's Office opens 9 a. m. Telephones, 7452 and 7453 Main.

SUPREME COURT—SECOND DEPARTMENT.

Kings County Court-house, Joralemon and Fulton streets, Borough of Brooklyn. Clerk's office hours, 9 o'clock a. m. to 5 o'clock p. m. Seven jury trial parts. Special Term for Trials. Special Term for Motions. Special Term (ex-parte business). Naturalization Bureau, Room 7, Hall of Records Brooklyn, N. Y. James F. McGee, General Clerk. Telephone, 5460 Main. QUEENS COUNTY. County Court House, Long Island City. Court opens at 10 a. m. Trial and Special Term for Motions and ex parte business each month except July, August and September, in Part I. Trial Term, Part 2, January, February, March, April, May and December. Special Term for Trials, January, April, June and November. Naturalization, first Friday in each Term. Thomas B. Seaman, Special Deputy Clerk in charge. John D. Peace, Part I and Calendar Clerk James Ingram, Part 2, Clerk. Clerk's office open 9 a. m. to 5 p. m., except Saturday 9 a. m. to 12.30 p. m. Telephone, 3396 Hunter's Point. RICHMOND COUNTY. Terms of Court in Year 1912. Second Monday of January, first Monday of February, first Monday of April, first Monday of June, first Monday of November. Trial Terms to be held at County Court House at Richmond. Second Monday of February, second Monday of June, second Monday of November. Special Terms for Trials to be held at Court Room, Borough Hall, St. George. First and third Saturdays of January, second and fourth Saturdays of March, first and third Saturdays of April, second and fourth Saturdays of May, first and third Saturdays of October, first and third Saturdays of December. Special Terms for Motions to be held at Court Room, Borough Hall, St. George. C. Livingston Bostwick, Clerk. John H. Wilkinson, Special Deputy.

COURT OF GENERAL SESSIONS.

Held in the Building for Criminal Courts, Centre, Elm, White and Franklin streets. Court opens at 10.30 a. m. Warren W. Foster, Thomas C. O'Sullivan, Otto A. Rosalsky, Thomas C. T. Crain, 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. 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; Francis B. Delehanty, Joseph L. Green, Alexander Finelli, Thomas F. Donnelly, John V. McAvoy, Peter Schmuck, Richard T. Lynch, Edward B. La Petra, Richard H. Smith, Justices. Thomas F. Smith, Clerk. Telephone, 123 Cortlandt.

COURT OF SPECIAL SESSIONS.

Isaac Franklin Russell, Chief Justice; Joseph M. Deuel, Lorenz Zeller, John B. Mayo, Franklin Chase Hoyt, Joseph P. Moss, Howard J. Forke, John Fleming, Robert J. Wilkin, George J. O'Keefe, Morgan M. L. Ryan, James J. McInerney, Arthur C. Salmon, Henry Steiner and Cornelius F. Collins, Justices. Frank W. Smith, Chief Clerk. Building for Criminal Courts, Centre street, between Franklin and White streets, Borough of Manhattan. Court opens at 10 a. m. Part I, Criminal Court Building, Borough of Manhattan, John P. Hilly, Clerk. Telephone, 2092 Franklin. Part II, 171 Atlantic avenue, Borough of Brooklyn. This part is held on Mondays, Thursdays and Fridays. Joseph L. Kerrigan, Clerk. Telephone, 4280 Main. Part III, Town Hall, Jamaica, Borough of Queens. This part is held on Tuesdays. H. S. Moran, Clerk. Telephone, 687 Jamaica. Part IV, Borough Hall, St. George, Borough of Richmond. This part is held on Wednesdays. Robert Brown, Clerk. Telephone, 49 Tompkinsville.

CHILDREN'S COURT.

New York County—No. 66 Third avenue, Manhattan. Dennis A. Lambert, Clerk. Telephone, 1832 Stuyvesant. Kings County—No. 102 Court street, Brooklyn. Joseph W. Duffy, Clerk. Telephone, 627 Main. Queens County—No. 19 Hardenbrook avenue, Jamaica. Sydney Ollendorf, Clerk. This court is held on Mondays and Thursdays. Richmond County—Corn Exchange Bank Bldg. St. George, S. I. William J. Browne, Clerk. This court is held on Tuesdays. Office open every day (except Sundays and holidays) from 9 a. m. to 4 p. m. On Saturdays from 9 a. m. to 12 m.

CITY MAGISTRATES' COURT.

FIRST DIVISION. Court opens from 9 a. m. to 4 p. m. William McAdoo, Chief City Magistrate; Robert C. Cornell, Peter T. Barlow, Matthew P. Breen, Frederick B. House, Charles N. Harris, Frederic Kerochian, Arthur C. Butts, Joseph E. Corrigan, Moses Herrman, Paul Krotel, Keyran J. O'Connor, Henry W. Herbert, Charles W. Appleton, Daniel P. Murphy, John J. Preschl, Francis X. McQuade, City Magistrates. Phillip Bloch, Chief Clerk, 300 Mulberry street. Telephone, 6213 Spring. Second District—Criminal Courts Building. Second District—Jefferson Market. Third District—Second avenue and First 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. Ninth District (Night Court for Females)—No. 123 Sixth avenue. Tenth District (Night Court for Males)—No. 151 East Fifty-seventh street. Eleventh District—Domestic Relations Court—No. 151 East Fifty-seventh street.

SECOND DIVISION.

Otto Kempner, Chief City Magistrate; Edward J. Dooley, John Naumer, A. V. B. Voorhees, Jr., Alexander H. Gelman, John F. Hylan, Howard P. Nash, Moses J. Harris, Charles J. Dodd, John C. McGuire, Louis H. Reynolds, City Magistrates. Office of Chief Magistrates, 44 Court street., Rooms 209-214. Telephone, 7411 Main. William F. Delaney, Chief Clerk. Archibald J. McKinney, Chief Probation Officer, Myrtle and Vanderbilt avenues, Brooklyn, N. Y.

COURTS.

First District—No. 318 Adams street. Second District—Court and Butler streets. Fifth District—No. 249 Manhattan avenue. Sixth District—No. 495 Gates avenue. Seventh District—No. 31 Sulder avenue Flat-bush. Eighth District—West Eighth street (Coney Island). Ninth District—Fifth avenue and Twenty-third street. Tenth District—No. 133 New Jersey avenue. Domestic Relations Court—Myrtle and Vanderbilt avenues.

BOROUGH OF QUEENS.

City Magistrates—Joseph Fitch, John A. Leach Harry Miller, James J. Conway. 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. Fourth District—Town Hall, Jamaica, L. I.

BOROUGH OF RICHMOND.

City Magistrates—Joseph B. Handy, Nathaniel Marab. Courts. First District—Lafayette avenue, New Brighton Staten Island. Second Division—Village Hall, Stapleton, Staten Island. All Courts open daily for business from 9 a. m. to 4 p. m., except on Saturdays, Sundays and legal holidays, when only morning sessions are held.

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. Washope Lynn, William F. Moore, John Hoyer, Justices. Thomas O'Connell, Clerk. Frank Mangin, Deputy 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.; Saturdays, 9 a. m. to 12 m. July and August from 9 a. m. to 2 p. m. Additional Part is held at southwest corner of Sixth avenue and Tenth 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. Benjamin Hoffman, Leon Sanders, Thomas P. Dinean, Leonard A. Siskin, 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, 4300 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, Thomas F. Noonan, 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.; Saturdays, 9 a. m. to 12 m. Telephone number, 3450 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 Blackwells 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. Telephone, 5890 Plaza. 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, Frederic S. Sorensen, Justices. John H. Servis, Clerk. Location of Court—Southwest corner of 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 Blackwells Island and excluding any portion of Wards Island. Jacob Marks, Solomon Oppenheimer, 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.; Saturdays, 9 a. m. to 12 m. Telephone, 4343 Lenox. 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 coterminous 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. Well, John R. Davies, Justices. John P. Burns, Clerk. Location of Court—No. 70 Manhattan street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.; July and August, 9 a. m. to 2 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 Wards Island. Joseph P. Fallon and Leopold Prince, Justices. Hugh H. Moore, 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 Lexington avenue to the centre line of Fifth avenue and 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, Frederic De Witt Wells, Frank D. Sturges, William C. Wilson, Justices. Erna A. Bulkeley, Clerk. Location of Court—Southwest corner of Madison avenue and Fifty-ninth street. Parts I. and II. Court opens at 9 a. m. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.; Saturdays 9 a. m. to 12 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 sessions, Tuesdays and Friday of each week. Peter A. Shell, Justice. Stephen Collins, Clerk. Office hours from 9 a. m. to 4 p. m.; Saturdays closing at 12 m. Telephone, 437 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 and William E. Morris, Justices. 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. Eugene Conran, Justice. John L. Gray, Clerk. Clerk's Office open from 9 a. m. to 4 p. m. Sundays and legal holidays excepted. Telephone, 7091 Main. 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. John R. Farrar, George Freifield, Justices. Franklin B. Van Wart, Clerk. Clerk's Office open from 8.45 a. m. to 4 p. m. Sundays and legal holidays excepted. Saturdays 8.45 a. m. to 12 m. Telephone, 804 Bedford. 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 to the centre line of Saydam 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. Phillip D. Meagher and William J. Bogenshuta, 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 Saydam 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. Jacob S. Strahl, Justice. Joseph P. McCarthy, 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 (No. 5320 Third avenue). Cornelius Furguson, Justice. Jeremiah J. O'Leary, Clerk. Clerk's Office open from 9 a. m. to 4 p. m. Sundays and legal holidays excepted. Telephone, 3907 Sunset. 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. Baylis and Stephen Callaghan, Justices. William R. Fagan, Clerk. Court House, No. 236 Duffield street. Telephone, 6166-J Main. Seventh District—The Seventh District embraces the Twenty-sixth, Twenty-eighth and Thirtieth Wards. Alexander S. Rosenthal and Edward A. Richards, Justices. James P. Sinnott, Clerk. Court House, corner Pennsylvania avenue and Fulton street (No. 31 Pennsylvania avenue). Clerk's Office open from 8.45 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Trial days, Tuesdays, Wednesdays, Thursdays and Fridays. During July and August, 8.45 a. m. to 2 p. m. Telephone, 904 and 905 East New York.

BOROUGH OF QUEENS.

First District—Embraces the territory bounded by and within the canal, Rappelye avenue, Jackson avenue, Old Bowers Bay road, Bowers Bay, East River and Newtown Creek. 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. Kadlen, Justice. John F. Cassidy, Clerk. Telephone, 1420 Hunters Point. Second District—Embraces the territory bounded by and within Maspeth avenue, Maurice avenue, Calamus road, Long Island Railroad, Trotting Course lane, Metropolitan avenue, boundary line between the Second and Fourth Wards, boundary line between the Second and Third Wards, Flushing Creek, Ireland Mill road, Lawrence avenue, Bradford avenue, Main street, Lincoln street, Union street, Broadway, Parsons avenue, Lincoln street, Percy street, Sanford avenue, Murray lane, Baylyde avenue, Little Baylyde road, Little Neck bay, East River, Bowers Bay, Old Bowers Bay road, Jackson avenue, Rappelye avenue, the canal and Newtown Creek. 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. John M. Cragen, Justice. J. Frank Ryan, Clerk. Trial days, Tuesdays and Thursdays. Fridays for jury trials only. Clerk's Office open from 9 a. m. to 4 p. m. Sundays and legal holidays excepted.

Telephone, 87 Newtown.
 Third District—Embraces the territory bounded by and within Maspeth avenue Maurice avenue Calanus road, Long Island Railroad, Trotting Course lane, Metropolitan avenue, boundary line between the Second and Fourth Wards, Vandever avenue, Jamaica avenue, Shaw avenue, Atlantic avenue, Morris avenue, Rockaway road, boundary line between Queens and Nassau counties, Atlantic Ocean, Rockaway Inlet, boundary line between Queens and Kings counties and Newtown Creek. Alfred Denton, Justice. John H. Elna, Clerk 1908 and 1910 Myrtle avenue, Glendale. Telephone, 2383 Bushwick.
 Clerk's Office open from 9 a. m. to 4 p. m. Trial days, Tuesdays and Thursdays (Fridays or Jury trials only) at 9 a. m.
 Fourth District—Embraces the territory bounded by and within the boundary line between the Second and Fourth Wards, the boundary line between the Second and Third Wards, Flushing Creek, Ireland Mill road, Lawrence avenue, Bradford avenue, Main street, Lincoln street, Union street, Broadway, Parsons avenue, Lincoln street, Percy street, Sanford avenue, Murray lane, Bay-side avenue, Little Bayside road, Little Neck Bay, boundary line between Queens and Nassau counties Rockaway road, Morris avenue, Atlantic avenue, Shaw avenue, Jamaica avenue and Vandever avenue.
 Court House, Town Hall, northeast corner of Fulton street and Flushing avenue, Jamaica. James F. McLaughlin, Justice. George W. Damon, Clerk.
 Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m. Court held on Mondays, Wednesdays and Fridays at 9 a. m.
 Telephone, 1654 Jamaica.

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. Thomas E. Cremins, 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.
 Arnold J. B. Wedemeyer, Justice. William Wedemeyer, Clerk.
 Clerk's Office open from 8.45 a. m. to 4 p. m. Court opens at 9 a. m. Calendar called at 9 a. m. Court continued until close of business. Trial days, Mondays, Wednesdays and Fridays. Telephone 313 Tompkinsville.

DEPARTMENT OF PARKS.

AUCTION SALE.
 THE DEPARTMENT OF PARKS, Boroughs of Manhattan and Richmond, will sell at public auction, by Henry Klinger, Auctioneer, at the Metropolitan Museum of Art, Central Park, 82d st. and 5th ave., on **TUESDAY, AUGUST 27, 1912,** at 10 a. m.:
 30 exhibition cases.
 1 pile of old lumber consisting of doors, sash, partitions, shelves, veneer benches and other material.
TERMS OF SALE.
 The purchase money to be paid in cash or certified check at the time of sale. Purchasers must remove all materials immediately after sale, and to secure such removal the purchaser thereof will be required to make at the time of sale a cash deposit of Fifty Dollars (\$50), which will be returned if all of the material is removed within five days after sale, otherwise it will be forfeited to the Department, and the Department may cause the material to be removed or resold.
 CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond. New York, August 14, 1912. a16,19,22,26

DEPARTMENT OF FINANCE.

Corporation Sales.
CORPORATION SALE OF LEASE.
CORPORATION SALE BY SEALED BIDS OF THE LEASE OF CERTAIN CITY REAL ESTATE.
 UPON THE AUTHORIZATION OF THE Commissioners of the Sinking Fund, and pursuant to a resolution adopted by them at a meeting held June 12, 1912, the Comptroller of the City of New York will sell by sealed bids on **SATURDAY, AUGUST 31, 1912,** at 11 o'clock a. m., in Room K, 280 Broadway, Borough of Manhattan, the lease, for a period of ten years from August 1, 1912, with the privilege of renewal for an additional ten years upon the same terms and conditions, of the premises belonging to the corporation of The City of New York, and known as Nos. 1 and 2 on a certain map No. 31, made by the Department of Water Supply, Gas and Electricity, and known as Hors-falls Pond property at Freeport, Nassau County, Long Island, and more particularly described as follows:
 All that certain piece or parcel of real estate situated in the Town of Hempstead, Village of Freeport, County of Nassau and State of New York, designated as Parcels Nos. 1 and 2, on sheet 31 of maps entitled "Atlas showing lands on Long Island used for water supply purposes, Borough of Brooklyn, City of New York," dated 1898, filed in the office of the Commissioner of Water Supply, Gas and Electricity, City of New York, said parcel being described as follows:
 Beginning at the monument located on the easterly side of Main st., about 1,600 feet south of the Merrick road; running thence in a northerly direction along the westerly boundary of lands of the said City of New York, the following seven courses and distances: North 7 degrees 37 minutes 30 seconds west 129.7 feet; north 63 degrees 22 minutes 30 seconds west 82.7 feet; north 30 degrees 41 minutes 30 seconds west 171.2 feet; north 7 degrees 51 minutes 30 seconds west 140.1 feet; north 5 degrees 27 minutes 30 seconds west 43.1 feet; north 21 degrees 11 minutes 30 seconds west 146.3 feet; north 32 degrees 6 minutes 30 seconds west 137 feet to a monument; running thence easterly along the northerly boundary of said City's land the following three courses and distances: South 75 degrees 11 minutes 30 seconds east 311.9 feet; south 58 degrees 54 minutes 30 seconds east 167.3 feet; north 72 degrees 55 minutes 30 seconds east 252.5 feet to a point; running thence northerly the following two courses and distances: North 12 degrees 35 minutes 30 seconds east 55.2 feet; north 5 degrees 32 minutes east 181.2 feet to a monument located on the southerly side of the Merrick road, distance about 125 feet westerly from the centre of the westerly branch of East Meadow Stream; running thence along the southerly side of the Merrick road south 68 degrees 25 minutes east 206 feet to a monument; running thence in a southerly direction the following seven courses and distances: South 23 degrees 53 minutes west 140 feet; south 23 degrees 30 minutes 30 seconds west 169.1 feet; south 6 degrees 50 minutes 30 seconds west 172.6 feet; south 5 degrees 3 minutes 30 seconds west 310.5 feet; south 33 de-

grees 52 minutes 30 seconds west 55.2 feet; south 55 degrees 45 minutes 30 seconds west 49 feet; south 17 degrees 39 minutes 30 seconds west 32.8 feet to a monument; thence south 70 degrees 57 minutes 30 seconds west 332.6 feet to the point or place of beginning, containing within said bounds 10.8 acres, more or less.
 The Comptroller will receive sealed bids for the lease of the said parcel or land for the said period at the minimum or upset price of \$750 per annum, payable quarterly in advance, and the said sale will be made upon the following **TERMS AND CONDITIONS.**
 The highest bidder will be required to pay 25 per cent. of the amount of the yearly rental at the time and place of sale; the amount so paid for one quarter's rent shall be forfeited if the successful bidder does not execute the lease when notified that it is ready for execution.
 He will also be required to give a bond in double the amount of the annual rental bid, with two sufficient sureties to be approved by the Comptroller, conditioned for the payment of the rent quarterly in advance and for the performance of the covenants and terms of the lease.
 No building shall be erected upon said site except approval shall have been first obtained from the Commissioners of the Sinking Fund, and plans and specifications of said building shall be presented to said Board and approval in writing obtained.
 No person shall be received as lessee or surety who is a delinquent on any former lease from the corporation, and no bid shall be accepted from any person who is in arrears to the corporation upon debt or contract, or who is a defaulter as surety, or otherwise, upon any obligation to the corporation, as provided by law.
 The lease will be in the usual form of leases of like property and will contain, in addition to other terms, covenants and conditions, as follows:
 First—The City to retain all water rights.
 Second—The City to be held free from all damage by freshets which may be caused by heavy rains and the overflow of streams or the City's ponds lying in the same valley.
 Third—The City to be held free from all damage which may be caused by oscillations of the ground water, whether from cessation or reduction of pumping at the Agawam Pumping Station, or other causes, the City in no case being under obligation to operate that pumping station for the purpose of lowering the ground water, on or under the said property to be demised.
 The Comptroller shall have the right to reject any or all bids if deemed to be to the interest of the City of New York.
 WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 14, 1912. a15,31
CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.
AT THE REQUEST OF THE FIRE 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 certain buildings standing upon property owned by the City of New York, acquired by it for Fire Department purposes, in the **Borough of Richmond.**
 Being the building occupied by Engine Company No. 203 and the adjoining building recently acquired, both of which are situated on the plot of ground, 50 feet by 100 feet 6 inches, on the southerly side of Broad st., distant 175 feet easterly from the southeast corner of Broad and Quinn sts., and known as Nos. 72 and 74 Broad st., Stapleton, in the Borough of Richmond, which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room K, 280 Broadway, Borough of Manhattan.
 Pursuant to a resolution adopted by the Commissioners of the Sinking Fund, at a meeting held June 26, 1912, the sale by sealed bids of the above described building and appurtenances thereto will be held by direction of the Comptroller on **THURSDAY, AUGUST 29, 1912,** at 11 a. m., in lots and parcels and in manner and form as follows:
 Parcel No. 1—Building now occupied by Engine Company No. 203 at 72 Broad st., Stapleton, Borough of Richmond, the Fire Department will remove the following appurtenances, which are not included in the sale: Sliding poles, pole hole railings, instrument cases, desks, patrol desks, platform and rail, lockers, harness, fixtures and cases, stall posts, guards and plumbing fixtures.
 Parcel No. 2—Two-story frame building, No. 74 Broad st., Stapleton.
 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 K, No. 280 Broadway, Borough of Manhattan, until 11 a. m., on the 29th day of August, 1912, 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 August 29, 1912," 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 K, 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 TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS ISSUE OF THE "CITY RECORD."
 WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 9, 1912. a13,29

Notice to Property Owners.
NOTICE OF ASSESSMENT 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 RICHMOND:**
FOURTH WARD.
ANDERSON STREET—OPENING, from Clifton ave. to St. Marys ave. Confirmed June 25, 1912; entered August 13, 1912. Area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Richmond, in The City of New York, which, taken together, are bounded and described as follows, viz.:
 Beginning at a point on the easterly line of Tompkins ave. distant 100 feet northerly from the northerly line of Virginia ave., the said distance being measured at right angles to Virginia ave., and running thence easterly and always distant 100 feet northerly from and parallel with the northerly line of Virginia ave. to a point distant 100 feet westerly from the westerly line of Anderson st., the said distance being measured at right angles to Anderson st.; thence northwardly and parallel with Anderson st. to the southerly line of St. Marys ave.; thence easterly along the southerly line of St. Marys ave. to a point distant 100 feet easterly from the easterly line of Anderson st., the said distance being measured at right angles to Anderson st.; thence southwardly and parallel with Anderson st. to a point distant 100 feet northerly from the northerly line of Virginia ave., the said distance being measured at right angles to Virginia ave.; thence easterly and parallel with Virginia ave. to a point distant 100 feet westerly from the westerly line of New York ave., the said distance being measured at right angles to New York ave.; thence southwardly and parallel with New York ave. to a point distant 100 feet southerly from the southerly line of Clifton ave., the said distance being measured at right angles to Clifton ave.; thence westwardly and parallel with Clifton ave. to a point distant 100 feet easterly from the easterly line of Rosebank place, the said distance being measured at right angles to Rosebank place; thence southwardly and parallel with Rosebank place to the northerly line of Pennsylvania ave.; thence westwardly along the northerly line of Pennsylvania ave. to the easterly line of Anderson st.; thence southwardly along the prolongation of the easterly line of Anderson st. to a point distant 100 feet southerly from the southerly line of Pennsylvania ave., the said distance being measured at right angles to Pennsylvania ave.; thence westwardly and parallel with Pennsylvania ave. to the prolongation of the easterly line of Tompkins ave.; thence northwardly along the easterly line of Tompkins ave. and the prolongation thereof to a point distant 100 feet northerly from the northerly line of Pennsylvania ave., the said distance being measured at right angles to Pennsylvania ave.; thence easterly and parallel with Pennsylvania ave. to a point distant 100 feet easterly from the easterly line of Tompkins ave.; thence northwardly and parallel with Tompkins ave. to a point distant 100 feet southerly from the southerly line of Virginia ave., the said distance being measured at right angles to Virginia ave.; thence westwardly and parallel with Virginia ave. to the easterly line of Tompkins ave.; thence northwardly along the easterly line of Tompkins ave. to the point or place of beginning. (With the exception of Anderson st., none of the streets named have been laid out upon the City map, and the description is based upon their lines as in use and commonly recognized.)
 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 sts., 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 October 8, 1912, 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.
 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 sts., 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 October 8, 1912, 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.
 WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 9, 1912. a14,24
NOTICE TO PROPERTY OWNERS.
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-FOURTH WARD ANNEXED TERRITORY.
GLOVER STREET (GRACE AVENUE)— OPENING, from Castle Hill ave. to Westchester ave., and **DORIS STREET—OPENING,** from Glebe ave. to Westchester ave. Confirmed June 25, 1912; entered August 7, 1912. 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 a point on the northwesterly line of Westchester ave. where it is intersected by the line bisecting the angle formed by the intersection of the prolongations of the centre line of Glebe ave. as laid out southerly from Glover st. and the centre line of Doris st., and running thence northerly along the said bisecting line to the intersection with a line distant one hundred feet southwestwardly from and parallel with the southwestwardly line of Doris st., the said distance being measured at right angles to the line of Doris st.; thence northwardly along the said line parallel with Doris st. and the prolongation thereof to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Glebe ave., the said distance being measured at right angles to the line of Glebe ave.; thence northwardly along the said line parallel with Glebe ave. to the intersection with a line distant 100 feet southwardly from and parallel with the southwestwardly line of Glover st., the said distance being measured at right angles to the line of Glover st.; thence northwardly along the said line parallel with Glover st. to the intersection of the easterly line of Castle Hill ave.; thence westwardly at right angles to the line of Castle Hill ave. a distance of 200 feet; thence northwardly and parallel with Castle Hill ave. to the intersection with a line at right angles to the line of Castle Hill ave. and passing through a point on its westerly side where it is intersected by the prolongation of a line midway between Glover st. and Parker st.; thence easterly along the said line at right angles to Castle Hill ave. to its westerly side; thence southeastwardly along the said line midway between Glover st. and Parker st., and the prolongation thereof, to a point distant 100 feet southeastwardly from the southeastwardly line of Westchester ave.; thence southwestwardly and parallel with Westchester ave. to the intersection with a line at right angles to Westchester ave. and passing through the point of beginning; thence northwardly along the said line at right angles to Westchester ave. 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

vided in 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 Municipal Building, corner of 177th st. and 3d ave., 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 October 18, 1912, 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.
 WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 9, 1912. a14,24
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 WARD, SECTION 3; TWENTY-NINTH AND THIRTIETH WARDS, SECTIONS 16 AND 17.
TENTH AVENUE—SEWER, between 37th and 39th sts. Area of assessment affects Blocks 902, 5581, 5582, 5288 and 5289.
 That the same were confirmed by the Board of Revision of Assessments on August 9, 1912, and entered August 9, 1912, 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, 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 sts., 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 October 8, 1912, 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.
 WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 9, 1912. a14,24
NOTICE TO PROPERTY OWNERS.
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-FOURTH WARD ANNEXED TERRITORY.
GLOVER STREET (GRACE AVENUE)— OPENING, from Castle Hill ave. to Westchester ave., and **DORIS STREET—OPENING,** from Glebe ave. to Westchester ave. Confirmed June 25, 1912; entered August 7, 1912. 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 a point on the northwesterly line of Westchester ave. where it is intersected by the line bisecting the angle formed by the intersection of the prolongations of the centre line of Glebe ave. as laid out southerly from Glover st. and the centre line of Doris st., and running thence northerly along the said bisecting line to the intersection with a line distant one hundred feet southwestwardly from and parallel with the southwestwardly line of Doris st., the said distance being measured at right angles to the line of Doris st.; thence northwardly along the said line parallel with Doris st. and the prolongation thereof to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Glebe ave., the said distance being measured at right angles to the line of Glebe ave.; thence northwardly along the said line parallel with Glebe ave. to the intersection with a line distant 100 feet southwardly from and parallel with the southwestwardly line of Glover st., the said distance being measured at right angles to the line of Glover st.; thence northwardly along the said line parallel with Glover st. to the intersection of the easterly line of Castle Hill ave.; thence westwardly at right angles to the line of Castle Hill ave. a distance of 200 feet; thence northwardly and parallel with Castle Hill ave. to the intersection with a line at right angles to the line of Castle Hill ave. and passing through a point on its westerly side where it is intersected by the prolongation of a line midway between Glover st. and Parker st.; thence easterly along the said line at right angles to Castle Hill ave. to its westerly side; thence southeastwardly along the said line midway between Glover st. and Parker st., and the prolongation thereof, to a point distant 100 feet southeastwardly from the southeastwardly line of Westchester ave.; thence southwestwardly and parallel with Westchester ave. to the intersection with a line at right angles to Westchester ave. and passing through the point of beginning; thence northwardly along the said line at right angles to Westchester ave. 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 177th st. and 3d ave., 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 October 7, 1912, 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.

WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 7, 1912. a9,20

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 BROOKLYN:

TWENTY-NINTH AND THIRTY-SECOND WARD, SECTIONS 15 AND 24.

EAST NINETY-FIFTH STREET—OPENING, from E. New York ave. to Rockaway ave. Confirmed February 9, 1912; entered August 7, 1912. 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.:

One-half the block on each side of E. 95th st., from E. New York ave. to Rockaway ave.

That the above entitled assessment was entered on the day 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, 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, 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 sts., 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 October 7, 1912, 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.

WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 7, 1912. a9,20

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 avenues in the BOROUGH OF QUEENS:

SECOND WARD.

FRESH POND ROAD—OPENING, from Flushing ave. to Myrtle ave. Confirmed June 3, 1912; entered August 7, 1912. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Queens, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at the intersection of the easterly side or line of Hedwig st. prolonged northerly with the southerly side or line of Grand st., as shown on Section 17 of the Final Maps of the Borough of Queens, adopted June 26, 1908; running westerly along the southerly side or line of Grand st. to the point or place where the southerly side or line of Grand st. intersects a line distant at all times 100 feet, measured at right angles from the northerly side or line of Flushing ave.; running thence westerly along the said line distant 100 feet, measured at right angles from the northerly side or line of Flushing ave., and parallel to said Flushing ave. to a point where said line intersects the line midway at all times between Fresh Pond road and Clermont ave. produced northerly; running thence southerly and at all times midway between the easterly line of Clermont ave. and the westerly line of Fresh Pond road and production of this course to the southerly line of Hebbard ave.; thence westerly along said southerly line of Hebbard ave. to a point midway between the easterly line of Mary st. and the westerly line of Fresh Pond road; thence southerly and at all times, midway between the easterly line of Mary st. and the westerly line of Fresh Pond road and the production of this course to the southerly line of Vincent st.; thence southerly along the easterly line of Vincent st. and the production of this line to the southerly line

of Ralph st.; thence westerly along the southerly line of Ralph st. to a point midway between the easterly line of Prospect ave. and the westerly line of Fresh Pond road; thence southerly to a point on the northerly line of Putnam ave. midway between the easterly line of Prospect ave. and the westerly line of Fresh Pond road; thence southerly on the southerly line of Putnam ave.; thence easterly along the southerly line of Putnam ave. to a point midway between the easterly line of Buchman ave. and the westerly line of Fresh Pond road; thence southerly to a point on the northerly line of Myrtle ave. midway between the easterly line of Buchman ave. and the westerly line of Fresh Pond road; thence southerly along a line at right angles at all times to Myrtle ave. at the intersection of last-mentioned course to a point 100 feet southerly from the southerly side or line of Myrtle ave., measured at right angles to Myrtle ave.; thence easterly along a line distant 100 feet, measured at right angles from Myrtle ave. and parallel to said Myrtle ave. and the westerly line of Pansy st.; thence northerly along the westerly side or line of Pansy st. and projection northerly thereof to the northerly side or line of Myrtle ave.; thence easterly along the northerly line of Myrtle ave. to a point on the northerly side of Myrtle ave. midway between the intersection of the southwesterly line of Kossuth place and the northerly line of Myrtle ave. and the intersection of the easterly line of Central ave. and the northerly line of Myrtle ave.; thence northerly to a point on the northerly side of Halleck ave. or production thereof midway between the easterly line of Fresh Pond road and the westerly line of Sedgwick st.; thence northerly and at all times midway between the easterly line of Fresh Pond road and the westerly line of Sedgwick st. or production thereof to a point on the northerly line of Madison st.; thence easterly along the northerly line of Madison st. to a point midway between the easterly line of Fresh Pond road and the westerly line of Double-day st.; thence northerly to a point formed by the intersection of the easterly line of Lilac st. with the northerly line of Metropolitan ave.; thence northerly along the easterly line of Lilac st. and the production of said line to the northerly line of Eliot ave.; thence easterly along the northerly line of Eliot ave. to a point midway between the easterly line of Fresh Pond road and the westerly line of Mount Olivet ave.; thence northerly to a point formed by the intersection of the easterly line of Hedwig st. with the northerly line of Mount Olivet ave.; thence northerly along the easterly line of Hedwig st. and the production thereof to the southerly line of Grand st., the point or place of beginning.

PUTNAM AVENUE—OPENING, from Brooklyn Borough line to Fresh Pond road. Confirmed June 11, 1912; entered August 7, 1912. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Queens, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at the point of intersection of the Brooklyn Borough line and a line parallel to and distant 100 feet northerly from the northwesterly line of that part of Putnam ave. lying westerly of Forest ave., running thence northerly along the last mentioned line parallel to Putnam ave. to its intersection with the westerly line of Forest ave., thence northerly along the westerly line of Forest ave. for 100 feet, thence easterly to the point of intersection of the easterly line of Forest ave. and a line parallel to and distant 100 feet northerly from the northerly line of Putnam ave., thence easterly along said line parallel to Putnam ave. and its easterly prolongation to its intersection with a line parallel to and distant 100 feet easterly from the easterly line of Fresh Pond road, thence southerly along said line parallel to Fresh Pond road to its intersection with the easterly prolongation of a line parallel to and distant 100 feet southerly from the southerly line of that part of Putnam ave. lying easterly of Forest ave.; thence westerly along said prolongation and line, parallel to Putnam ave. to its intersection with the easterly line of Forest ave.; thence southerly along the easterly line of Forest ave. to its intersection with a line parallel to and distant 100 feet southeasterly from the southeasterly line of Putnam ave.; thence southwesterly along said line parallel to Putnam ave. to its intersection with the Brooklyn Borough line; thence northerly along the Brooklyn Borough line to the point or place of beginning.

The above-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, 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 Municipal Building, Court House square, Long Island City, Borough of Queens, 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 October 7, 1912, 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.

WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 7, 1912. a9,20

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 MANHATTAN:

FOURTEENTH WARD, SECTION 2.

CROSBY STREET—RESTORING ASPHALT PAVEMENT in front of premises Nos. 98 to 102. Area of assessment: Southwest corner of Crosby st. and Prince st., known as Lot 18, in Block 497.

TWELFTH WARD, SECTION 6.

EAST ONE HUNDRED AND THIRTY-THIRD STREET—RESTORING ASPHALT

PAVEMENT in front of premises No. 60. Area of assessment: Lot 42, in Block 1757.

TWELFTH WARD, SECTION 7.

WEST ONE HUNDRED AND FIFTY-THIRD STREET—RESTORING ASPHALT PAVEMENT in front of Nos. 451 and 453. Area of assessment: North side of 1534 st., about 220 feet west of St. Nicholas ave., known as Lot 11, in Block 2068.

TWELFTH WARD, SECTION 8.

WEST ONE HUNDRED AND SIXTY-SEVENTH STREET—RESTORING ASPHALT PAVEMENT in front of premises Nos. 446 and 448. Area of assessment: South side of 167th st., about 112 feet west of Edgecombe ave., known as Lots Nos. 97 and 99, in Block 2111.

The above assessments were certified to the Collector of Assessments and Arrears, under the provisions of section 391 of the Greater New York Charter.

That the same were entered on August 5, 1912, 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, "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, Room H, 280 Broadway, Borough of Manhattan, 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 October 5, 1912, 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.

WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, August 7, 1912. a9,20

Interest on City Bonds and Stocks.

INTEREST ON CITY BONDS AND STOCK.

THE INTEREST DUE ON SEPTEMBER 1, 1912, on Registered Bonds and Stock of The City of New York, and of former corporations now included therein, will be paid on that day by the Comptroller at his office (Room 85) in the Stewart Building, corner of Broadway and Chambers st., in the Borough of Manhattan.

The Coupons that are payable in New York, London or Paris for the interest due September 1, 1912, on Corporate Stock of The City of New York will be paid on that day, at the option of the holders thereof, at the office of the Guaranty Trust Co., 28 and 30 Nassau st., New York City, or at the office of Messrs. Seligman Bros., 18 Austin Friars, London, E. C., England.

The Coupons that are payable on September 1, 1912, for interest on bonds of former corporations, now included in The City of New York, will be paid on that day at the office of the said Guaranty Trust Co.

The books for the transfer of bonds and stock on which interest is payable on September 1, 1912, will be closed from August 15 to September 1, 1912.

W.M. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, July 31, 1912. a1,31

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 January 3, 1910. WILLIAM A. PRENDERGAST, Comptroller.

Notices of Sale.

NOTICE OF RESALE OF TAX LIENS.

BY DIRECTION OF THE COMPTROLLER of The City of New York the following tax liens heretofore sold, in respect of which the purchasers have not completed their purchases, as prescribed by chapter 17, title 5 of the Greater New York Charter, will be offered for resale at the pending Queens tax sale, pursuant to section 1029 of the Greater New York Charter, on

FRIDAY, AUGUST 23, 1912,

at 2 o'clock p. m. in the Arrears office, third floor, Municipal Building, Court House square, Long Island City, in the Borough of Queens, City of New York: Liens Nos. 121, 212, 457, 458, 500, 550, 551, 567, 596, 632 and 637.

Dated August 6, 1912. DANIEL MOYNAHAN, Collector of Assessments and Arrears. a7,23

NOTICE OF CONTINUATION OF QUEENS TAX SALE.

THE SALE OF THE LIENS FOR UNPAID taxes, assessments and water rents for the Borough of Queens, 5th Ward, as to liens remaining unsold at the termination of sales of November 21, December 12, 1911, January 16, February 20, March 19, April 23, May 21, June 25 and July 23, 1912, has been continued to

FRIDAY, AUGUST 23, 1912,

at 2 o'clock p. m., pursuant to section 1028 of the Greater New York Charter, and will be continued at that time in the Arrears office, third floor, Municipal Building, Court House square, Long Island City, in the Borough of Queens, City of New York.

Dated July 23, 1912. DANIEL MOYNAHAN, Collector of Assessments and Arrears. jy24,a23

BOARD MEETINGS.

Board of Aldermen.

The Board of Aldermen meets in the Aldermanic Chamber, City Hall, every Tuesday, at 1.30 o'clock p. m. P. J. SCULLY, City Clerk and Clerk to the Board of Aldermen.

Board of Estimate and Apportionment.

The Board of Estimate and Apportionment meets in the Old Council Chamber (Room 16), City Hall, every Thursday, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

Commissioners of Sinking Fund.

The Commissioners of the Sinking Fund meet in the Meeting Room (Room 16), City Hall, on Wednesdays, at 11 a. m., at call of the Mayor. JOHN KORB, JR., Secretary.

Board of Revision of Assessments.

The Board of Revision of Assessments meets in the Meeting Room (Room 16), City Hall, every Friday, at 11 a. m., upon notice of the Chief Clerk. JOHN KORB, JR., Chief Clerk.

Board of City Record.

The Board of City Record meets in the City Hall at call of the Mayor. DAVID FERGUSON, Supervisor, Secretary.

DEPARTMENT OF HEALTH.

CITY OF NEW YORK, DEPARTMENT OF HEALTH, OFFICE OF THE SECRETARY, August 6, 1912. AT A MEETING OF THE BOARD OF Health of the Department of Health, held July 30, 1912, the following resolution was adopted:

Resolved, That Rule 6 of the rules and regulations for sausage manufactories and establishments for smoking or preserving meat or fish adopted February 20, 1912, be amended so as to read as follows:

6. No room in which artificial illumination is required shall be used for the preparation of meat or fish. All such rooms must be directly lighted from the outside and directly ventilated by means of windows to the external air. No room, any portion of which is below the level of the ground shall be used for the preparation of meat or fish unless a permit shall be specially issued therefor by the Board of Health.

A True Copy, EUGENE W. SCHEFFER, Secretary. a9,16

DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK, SOUTHWEST CORNER OF CENTRE AND WALKER STS., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health until 10.30 o'clock a. m. on

TUESDAY, AUGUST 20, 1912.

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY OR REQUIRED TO INSTALL, ERECT AND COMPLETE SEWER LINES AND OUTSIDE TANKS, TOGETHER WITH ALL ALTERATIONS AND OTHER WORK INCIDENTAL THERETO, AT THE KINGSTON AVENUE HOSPITAL, KINGSTON AVE. AND FENIMORE ST., BOROUGH OF BROOKLYN, CITY OF NEW YORK.

The time for the completion of the work and the full performance of the contract is one hundred (100) 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 to the lowest bidder for the entire contract.

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 Centre and Walker sts., Borough of Manhattan, City of New York, ERNST J. LEDERLE, Ph.D., President; JOSEPH J. O'CONNELL, M.D., RHINELANDER WALDO, Board of Health. a7,20

Dated August 7, 1912. See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK, SOUTHWEST CORNER OF CENTRE AND WALKER STS., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health until 10.30 o'clock a. m. on

FRIDAY, AUGUST 16, 1912.

FOR FURNISHING AND DELIVERING 1,300 GROSS TONS NO. 1 BUCKWHEAT COAL TO THE KINGSTON AVENUE HOSPITAL, KINGSTON AVE. AND FENIMORE ST., BOROUGH OF BROOKLYN, FOR THE DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK.

The time for the delivery of the supplies and the performance of the contract is before December 31, 1912.

The amount of security required is fifty (50) per cent. of the amount of the bid.

Bids will be compared and the contract awarded to the lowest bidder for each class complete. Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Blank forms and plans and further information may be obtained at the office of the Chief Clerk of the Department of Health, southwest corner of Centre and Walker sts., Borough of Manhattan.

ERNST J. LEDERLE, Ph.D., President; JOSEPH J. O'CONNELL, M.D., RHINELANDER WALDO, Board of Health. a5,16

Dated August 3, 1912. See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK, SOUTHWEST CORNER OF CENTRE AND WALKER STS., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health until 10.30 o'clock a. m. on

TUESDAY, AUGUST 20, 1912.

PROPOSITION "A."

FOR FURNISHING ALL THE LABOR AND MATERIALS NECESSARY OR REQUIRED TO REINFORCE AND PAVE WITH STONE THE EXISTING DAM AND TO DREDGE AND CLEAN THE BOTTOM OF THE PRESENT BEAR SWAMP RESERVOIR, SITUATED UPON THE GROUNDS OF THE TUBERCULOSIS SANATORIUM AT OTTAVILLE, ORANGE COUNTY, NEW YORK, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

PROPOSITION "B."

FOR FURNISHING ALL THE LABOR AND MATERIALS NECESSARY OR REQUIRED TO CONSTRUCT A GATE HOUSE AND TO FURNISH AND LAY A TWELVE-INCH CAST IRON PIPE WATER LINE TO CONDUCT WATER FROM THE PRESENT BEAR

SWAMP RESERVOIR TO BUILDINGS UPON THE GROUNDS OF THE TUBERCULOSIS SANATORIUM AT OTISVILLE, ORANGE COUNTY, NEW YORK, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The time stipulated for the completion of the whole work, according to the specifications, is: For Proposition "A," one hundred and twenty (120) working days; for Proposition "B," three hundred (300) working days.

The amount of security required is fifty (50) per cent. of the amount of the bid.

Bids will be compared and the contract separately awarded to the lowest bidder on Proposition A and on Proposition B.

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 Centre and Walker sts., Borough of Manhattan, City of New York.

ERNEST J. LEDERLE, Ph.D., President; JOSEPH J. O'CONNELL, M.D., RHINELANDER WALDO, Board of Health.

Dated August 3, 1912. a3,20 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, FIRST NATIONAL BANK BUILDING, 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, AUGUST 20, 1912.

Borough of Richmond.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR PAINTING AND DECORATING INTERIOR OF BOROUGH HALL, AND ALL THE WORK INCIDENTAL THERETO, AS PER SPECIFICATIONS.

The time for the completion of the work and the full performance of the contract is ninety (90) working days.

The amount of security required is Three Thousand Dollars (\$3,000).

The contracts must be bid 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 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.

GEORGE CROMWELL, President. The City of New York, August 5, 1912.

a8,20 See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, 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 12 o'clock noon on

FRIDAY, AUGUST 23, 1912.

for a lease of the premises known as Warehouse No. 2, in Block "A," under the Manhattan Approach to the Brooklyn Bridge, for a period of one year, at an upset price of One Thousand Eight Hundred Dollars (\$1,800) per annum.

The terms and conditions are contained in the blank forms which may be obtained at the office of the Department of Bridges.

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.

ARTHUR J. O'KEEFE, Commissioner. Dated August 12, 1912. a15,23

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 223, 280 Broadway (Stewart Building), Borough of Manhattan, New York City, on Mondays, Tuesdays and Thursdays of each week, at 2 o'clock p. m., until further notice.

Dated New York City, July 26, 1911. WILLIAM D. DICKEY, CAMBRIDGE LIVINGSTON, DAVID ROBINSON, Commissioners. LAMONT McLOUGHLIN, Clerk.

DEPARTMENT OF EDUCATION.

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH ST., 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, AUGUST 26, 1912.

Borough of Manhattan.

No. 1. FOR ITEM 1, GENERAL CONSTRUCTION, ALSO ITEM 2, PLUMBING AND DRAINAGE OF NEW PUBLIC SCHOOL 102, ON THE NORTHERLY SIDE OF E. 113TH ST., ABOUT 80 FEET EAST OF 2D AVE., BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be three hundred (300) working days, as provided in the contract.

The amount of security required is as follows: Item 1, One Hundred Thousand Dollars (\$100,000); Item 2, Eight Thousand Dollars (\$8,000).

A separate proposal must be submitted for each item, and award will be made thereon.

Borough of The Bronx.

No. 2. FOR FURNITURE, ETC., FOR ADDITION TO PUBLIC SCHOOL 20, ON THE SOUTHERLY SIDE OF 167TH ST., BETWEEN FOX AND BARRETT STS., BOROUGH OF THE BRONX.

The time allowed to complete the whole work on each item will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows: Item 1, Three Hundred Dollars (\$300); Item 2, Two Hundred Dollars (\$200).

A separate proposal must be submitted for each item, and award will be made thereon.

No. 3. FOR FURNITURE, ETC., FOR ADDITION TO PUBLIC SCHOOL 43, ON THE WESTERLY SIDE OF BROWN PLACE, BETWEEN 135TH AND 136TH STS., BOROUGH OF THE BRONX.

The time allowed to complete the whole work on each item will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows: Item 1, Two Hundred Dollars (\$200); Item 2, Three Hundred Dollars (\$300).

A separate proposal must be submitted for each item, and award will be made thereon.

On Nos. 1, 2 and 3 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, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan. C. B. J. SNYDER, Superintendent of School Buildings.

Dated August 14, 1912. a14,26 See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD OF ELECTIONS.

OFFICE OF THE BOARD OF ELECTIONS OF THE CITY OF NEW YORK, 107 W. 41ST ST., BOROUGH OF MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Elections of the City of New York until 12 m. on

MONDAY, AUGUST 19, 1912.

FOR FURNISHING AND DELIVERING OFFICIAL AND SAMPLE BALLOTS FOR PRIMARY ELECTION, SEPTEMBER 17, 1912.

The time for the delivery of the ballots and the performance of the contract is ten (10) calendar days.

The amount of security required is Twenty Thousand Dollars (\$20,000).

The bids will be compared and the contract awarded "in aggregate for all items."

The Board of Elections reserves the right to make any changes or corrections in the copy that it may deem advisable or that shall be made necessary by the orders of courts of competent jurisdiction up to within forty-eight (48) hours of the time for delivery of the ballots.

All designations for candidates whose names are to appear on ballots must be filed with this Board, pursuant to the statute, before midnight of August 13, as soon as filed these may be examined by those proposing to bid.

As delivery of all of the ballots on time is absolutely essential all night and Sunday work that shall be necessary to insure such prompt deliveries shall be performed, the cost of same to be included in the price bid, as no allowance can or will be made for such extra work.

Pursuant to the designation of the Secretary of State, the color of the paper to be used for ballots for the Democratic Party shall be light green; for the Republican Party, cherry; for the Socialist Party, buff; for the Independence League Party, canary, and for the Prohibition Party, mandarin.

Blank forms and other information may be obtained at the office of the Board of Elections, No. 107 W. 41st st.

J. GABRIEL BRITT, MOSES M. MCKEE, JAMES KANE, JACOB A. LIVINGSTON, Commissioners of Election.

WILLIAM PLIMLEY, Deputy Chief Clerk. Dated New York, August 7, 1912. a8,19

a8,19 See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF DOCKS AND FERRIES.

OFFICE OF THE 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 noon on

THURSDAY, AUGUST 22, 1912.

CONTRACT NO. 1348.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR DREDGING ABOUT 9,000 CUBIC YARDS IN THE BOROUGHS OF MANHATTAN, BROOKLYN, QUEENS, THE BRONX AND RICHMOND.

The time for the completion of the work and the full performance of the contract is on or before March 31, 1913.

The amount of security required is Two Thousand Four Hundred Dollars (\$2,400).

The bidder shall state, both in writing and in figures, a price per cubic yard for doing all of the work described and specified, by which price the bids will be tested and award, if made, will be made to the bidder whose price per cubic yard is the lowest and whose bid is regular in all respects.

In case of discrepancy between the written price and that given in figures, the price in writing will be considered as the bid.

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 upon personal application at the office of the said Department, or by mail only when request is accompanied by ten (10) cents in stamps to pay postage.

CALVIN TOMKINS, Commissioner of Docks. Dated August 8, 1912. a10,22

a10,22 See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE 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 noon on

FRIDAY, AUGUST 16, 1912.

CONTRACT NO. 1352.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING AND DELIVERING ANTHRACITE COAL.

The time for the completion of the work and the full performance of each class of the contract is on or before July 1, 1913.

The amount of security required in each class is as follows:

Class 1—For about 55,000 tons of pea coal, the sum of \$90,000.

Class 2—For about 16,500 tons of pea coal, the sum of \$26,000.

The bidder shall state, both in writing and in figures, a price per ton for furnishing and delivering all of the coal called for in the class upon which a bid is submitted. Each class is a separate and distinct contract in itself, and awards, if made, will be made in each class to the bidder whose price, per ton, is the lowest and whose bid is regular in all respects. Extensions must be made and footed up in all cases. In case of discrepancy between the written price and that given in figures the price in writing will be considered as the bid.

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 upon personal application at the office of the said Department, or by mail only when request is accompanied by ten (10) cents in stamps to pay postage.

CALVIN TOMKINS, Commissioner of Docks. Dated August 2, 1912. a5,16

a5,16 See General Instructions to Bidders on the last page, last column, of the "City Record."

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 14, until 2 o'clock p. m. on

TUESDAY, AUGUST 27, 1912.

FOR REGULATING AND REPAVING WITH VITRIFIED SHALE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF 2D AVE., FROM THE NORTH SIDE OF 5TH ST. TO NORTH SIDE OF 7TH ST.

Engineer's estimate of the amount of work to be done:

2,200 square yards of vitrified shale block pavement, with Portland cement joints, except the road area.

220 square yards of vitrified shale block pavement, with Portland cement joints, in the railroad area (no guarantee).

450 cubic yards of Portland cement concrete.

900 linear feet of new 6-inch bluestone curbstone, furnished and set.

40 linear feet of old bluestone curbstone, to be purchased and removed by the contractor.

3 new sewer catchbasins, to be built.

4 hydrants, to be reset.

50 cubic yards filling, to be furnished.

50 square feet new cement sidewalk.

50 cubic yards excavation, below sub-grade.

The time allowed for doing and completing the above work will be thirty-five (35) working days.

The amount of security required will be Two Thousand Five Hundred Dollars (\$2,500).

FOR REGULATING AND REPAVING WITH DURAX CUBE GRANITE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF 2D AVE., FROM THE NORTH SIDE OF 5TH ST. TO THE NORTH SIDE OF 7TH ST.

Engineer's estimate of the amount of work to be done:

1,100 square yards of Durax cube granite block pavement, with paving cement joints, except the railroad area.

110 square yards of Durax cube granite block pavement, with paving cement joints, in the railroad area (no guarantee).

1,100 square yards of 4-inch cube granite block pavement, with paving cement joints, except the railroad area.

110 square yards of 4-inch cube granite block pavement, with paving cement joints, in the railroad area (no guarantee).

450 cubic yards of Portland cement concrete.

900 linear feet of new 6-inch bluestone curbstone, furnished and set.

40 linear feet of old bluestone curbstone, to be purchased and removed by the contractor.

3 new sewer catchbasins, to be built.

4 hydrants, to be reset.

50 cubic yards filling, to be furnished.

50 square feet new cement sidewalk.

50 cubic yards excavation, below sub-grade.

The time allowed for doing and completing the above work will be thirty-five (35) working days.

The amount of security required will be Two Thousand Five Hundred Dollars (\$2,500).

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.

Blank forms and specifications may be had at the office of the Commissioner of Public Works, 13 to 21 Park row, Bureau of Highways, Room 1611, Borough of Manhattan.

GEORGE McANENY, President. August 15, 1912. a15,27

a15,27 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 14, until 2 o'clock p. m. on

WEDNESDAY, AUGUST 21, 1912.

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF WATER ST., FROM THE NORTH SIDE OF WALL ST. TO THE SOUTH SIDE OF MAIDEN LANE.

Engineer's estimate of the amount of work to be done:

1,300 square yards of asphalt pavement, including binder course.

340 cubic yards of Portland cement concrete.

730 linear feet of new 5-inch bluestone curbstone, furnished and set.

190 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

5 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be thirty (30) working days.

The amount of security required will be One Thousand Two Hundred Dollars (\$1,200).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF STONE ST., FROM THE WEST SIDE OF BROAD ST. TO THE EAST SIDE OF WHITEHALL ST.

Engineer's estimate of the amount of work to be done:

1,040 square yards of asphalt pavement, including binder course.

210 cubic yards of Portland cement concrete.

640 linear feet of new 5-inch bluestone curbstone, furnished and set.

160 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

5 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be twenty (20) working days.

The amount of security required will be One Thousand Dollars (\$1,000).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF PEARL ST., FROM THE WEST SIDE OF BROAD ST. TO THE EAST SIDE OF WHITEHALL ST.

Engineer's estimate of the amount of work to be done:

1,100 square yards of asphalt pavement, including binder course.

220 cubic yards of Portland cement concrete.

560 linear feet of new 5-inch bluestone curbstone, furnished and set.

140 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

2 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be twenty (20) working days.

The amount of security required will be One Thousand Dollars (\$1,000).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF EXCHANGE PLACE, FROM THE EAST SIDE OF HANOVER ST. TO THE EAST SIDE OF NEW ST.

Engineer's estimate of the amount of work to be done:

1,730 square yards of asphalt pavement, including binder course.

370 cubic yards of Portland cement concrete.

1,230 linear feet of new 5-inch bluestone curbstone, furnished and set.

310 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

7 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be thirty (30) working days.

The amount of security required will be One Thousand Five Hundred Dollars (\$1,500).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF BEAVER ST., FROM THE EAST SIDE OF HANOVER ST. TO THE EAST SIDE OF BROADWAY.

Engineer's estimate of the amount of work to be done:

3,410 square yards of asphalt pavement, including binder course.

870 cubic yards of Portland cement concrete.

1,720 linear feet of new 5-inch bluestone curbstone, furnished and set.

440 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

4 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be forty (40) working days.

The amount of security required will be Two Thousand Five Hundred Dollars (\$2,500).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF NEW ST., FROM THE NORTH SIDE OF BEAVER ST. TO THE SOUTH SIDE OF WALL ST.

Engineer's estimate of the amount of work to be done:

2,230 square yards of asphalt pavement, including binder course.

470 cubic yards of Portland cement concrete.

1,500 linear feet of new 5-inch bluestone curbstone, furnished and set.

370 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

6 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be thirty (30) working days.

The amount of security required will be Two Thousand Dollars (\$2,000).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF MAIDEN LANE, FROM THE WEST SIDE OF PEARL ST. TO THE EAST SIDE OF BROADWAY.

Engineer's estimate of the amount of work to be done:

4,390 square yards of asphalt pavement, including binder course.

870 cubic yards of Portland cement concrete.

2,210 linear feet of new 5-inch bluestone curbstone, furnished and set.

550 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

5 standard heads and covers, complete, for sewer manholes, furnished and set.

The time allowed for doing and completing the above work will be forty (40) working days.

The amount of security required will be Three Thousand Dollars (\$3,000).

FOR REGULATING AND REPAVING WITH SHEET ASPHALT WITH CLOSE BINDER ON A CONCRETE FOUNDATION THE ROADWAY OF WALL ST., FROM THE WEST SIDE OF WATER ST. TO THE EAST SIDE OF PEARL ST.

Engineer's estimate of the amount of work to be done:

490 square yards of asphalt pavement, including binder course.

120 cubic yards of Portland cement concrete.

220 linear feet of new 5-inch bluestone curbstone, furnished and set.

60 linear feet of old bluestone curbstone, re-dressed, re-jointed and reset.

2 standard heads and covers, complete, for sewer manholes, furnished and set.

550 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 5 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be forty (40) working days.
 The amount of security required will be Four Thousand Dollars (\$4,000).

12. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF WALL ST., FROM THE WEST SIDE OF WATER ST. TO THE EAST SIDE OF PEARL ST.
 Engineer's estimate of the amount of work to be done:
 490 square yards of wood block pavement, including sand cushion.
 120 cubic yards of Portland cement concrete.
 220 linear feet of new 5-inch bluestone curbstone, furnished and set.
 60 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 2 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be ten (10) working days.
 The amount of security required will be Five Hundred Dollars (\$500).

13. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PINE ST., FROM THE WEST SIDE OF SOUTH ST. TO THE EAST SIDE OF NASSAU ST.
 Engineer's estimate of the amount of work to be done:
 2,730 square yards of wood block pavement, including sand cushion.
 660 cubic yards of Portland cement concrete.
 2,430 linear feet of new 5-inch bluestone curbstone, furnished and set.
 610 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 13 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be thirty (30) working days.
 The amount of security required will be Three Thousand Dollars (\$3,000).

14. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF WATER ST., FROM THE NORTH SIDE OF WALL ST. TO THE SOUTH SIDE OF MAIDEN LANE.
 Engineer's estimate of the amount of work to be done:
 1,300 square yards of wood block pavement, including sand cushion.
 340 cubic yards of Portland cement concrete.
 730 linear feet of new 5-inch bluestone curbstone, furnished and set.
 190 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 5 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be thirty (30) working days.
 The amount of security required will be One Thousand Five Hundred Dollars (\$1,500).

15. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF STONE ST., FROM THE WEST SIDE OF BROAD ST. TO THE EAST SIDE OF WHITEHALL ST.
 Engineer's estimate of the amount of work to be done:
 1,040 square yards of wood block pavement, including sand cushion.
 210 cubic yards of Portland cement concrete.
 640 linear feet of new 5-inch bluestone curbstone, furnished and set.
 160 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 5 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be twenty (20) working days.
 The amount of security required will be One Thousand Two Hundred Dollars (\$1,200).

16. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PEARL ST., FROM THE WEST SIDE OF BROAD ST. TO THE EAST SIDE OF WHITEHALL ST.
 Engineer's estimate of the amount of work to be done:
 1,100 square yards of wood block pavement, including sand cushion.
 220 cubic yards of Portland cement concrete.
 560 linear feet of new 5-inch bluestone curbstone, furnished and set.
 140 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 2 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be twenty (20) working days.
 The amount of security required will be One Thousand Two Hundred Dollars (\$1,200).

17. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF EXCHANGE PLACE, FROM THE EAST SIDE OF HANOVER ST. TO THE EAST SIDE OF NEW ST.
 Engineer's estimate of the amount of work to be done:
 1,730 square yards of wood block pavement, including sand cushion.
 370 cubic yards of Portland cement concrete.
 1,230 linear feet of new 5-inch bluestone curbstone, furnished and set.
 310 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 7 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be thirty (30) working days.
 The amount of security required will be Two Thousand Dollars (\$2,000).

18. FOR REGULATING AND REPAVING WITH WOOD BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF BEAVER ST., FROM THE EAST SIDE OF HANOVER ST. TO THE EAST SIDE OF BROADWAY.
 Engineer's estimate of the amount of work to be done:
 870 square yards of wood block pavement, including sand cushion.
 1,720 linear feet of new 5-inch bluestone curbstone, furnished and set.
 440 linear feet of old bluestone curbstone, redressed, rejointed and reset.
 4 standard heads and covers, complete, for sewer manholes, furnished and set.
 The time allowed for doing and completing the above work will be forty (40) working days.
 The amount of security required will be Three Thousand Five Hundred Dollars (\$3,500).

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.
 Blank forms and specifications may be had at the office of the Commissioner of Public Works, 13 to 21 Park row, Bureau of Highways, Room 1611, Borough of Manhattan.
 GEORGE McANENY, President.
 August 9, 1912.

See General Instructions to Bidders on the last page, last column, of the "City Record."

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POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK, OFFICE OF THE PROPERTY CLERK, August 10, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT the 14th public auction sale, consisting of condemned Police Department patrol wagons, carriages and one automobile, will be held at the sales stables of the Fiss, Doerr & Carroll Horse Company, No. 153 E. 24th st., Manhattan, on

THURSDAY, AUGUST 22, 1912,

- at 11 a. m.
- Lot No. 1—1 carriage, No. 140.
- Lot No. 2—1 carriage, No. 144.
- Lot No. 3—1 carriage, No. 160.
- Lot No. 4—1 carriage, No. 170.
- Lot No. 5—1 patrol wagon, No. 1.
- Lot No. 6—1 patrol wagon, No. 7.
- Lot No. 7—1 patrol wagon, No. 17.
- Lot No. 8—1 patrol wagon, No. 29.
- Lot No. 9—1 patrol wagon, No. 36.
- Lot No. 10—1 patrol wagon, No. 42.
- Lot No. 11—1 patrol wagon, No. 57.
- Lot No. 12—1 patrol wagon, No. 85.
- Lot No. 13—1 patrol wagon, No. 89.
- Lot No. 14—1 patrol wagon, No. 91.
- Lot No. 15—1 simplex automobile, No. 300676.

R. WALDO, Police Commissioner. a15,22

POLICE DEPARTMENT OF THE CITY OF NEW YORK, CENTRAL DEPARTMENT, BOROUGH OF MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received by the Police Commissioner of the Police Department of the City of New York, at the Bookkeeper's Office, Headquarters of the Police Department, 240 Centre st., Borough of Manhattan, in the City of New York, until 10 o'clock a. m. on

FRIDAY, AUGUST 23, 1912.

FOR MAKING, COMPLETING AND DELIVERING THREE LAUNCHES FOR THE POLICE DEPARTMENT OF THE CITY OF NEW YORK.

The time allowed for making and completing the work will be seventy (70) calendar days after the execution of the contract, the endorsement thereon of his certificate by the Comptroller, and the receipt by the contractor of a written order to deliver from the Police Commissioner.

The security required will be fifty (50) per cent. of the amount of the bid or estimate. The bids will be compared and award of contract, if made, made to the lowest bidder on each item for all the articles, materials or supplies specified and contained in the specifications and schedules.

The bidder will state the price for which he will do all the work, and provide, furnish and deliver all the labor and materials mentioned and described in said contract and specifications.

For particulars as to the nature and extent of the work required or of the materials to be furnished, bidders are referred to the specifications. 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, including the specifications, can be obtained upon application therefor at the office of the Commissioner, and any further information can be obtained at the office of the Bureau of Repairs and Supplies, Headquarters of the Police Department, 240 Centre st., Borough of Manhattan.

R. WALDO, Police Commissioner. a12,23

See General Instructions to Bidders on the last page, last column, of the "City Record."

POLICE DEPARTMENT, CITY OF NEW YORK. OWNERS WANTED BY THE PROPERTY CLERK OF THE POLICE DEPARTMENT OF THE CITY OF NEW YORK, No. 240 Centre street, for the following property now in 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.

R. WALDO, Police Commissioner.

POLICE DEPARTMENT OF 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. 269 State street, Borough of Brooklyn—for the following property, now in 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.

R. WALDO, Police Commissioner.

ARMORY BOARD.

ARMORY BOARD, HALL OF RECORDS, CHAMBERS AND CENTRE STS.

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Mayor, Chairman of the Armory Board, in the City of New York, until 2 p. m. on

THURSDAY, AUGUST 22, 1912.

ITEM NO. 1—ALTERATIONS, IMPROVEMENTS, ETC., 14TH REGIMENT ARMORY, BOROUGH OF BROOKLYN.

The security is as follows:
 Estimate A—Ten Thousand Dollars (\$10,000).
 Estimate B—Ten Thousand Dollars (\$10,000).
 The deposit required is Five Hundred Dollars (\$500) in each case.

The time allowed for doing the work is one hundred (100) working days in each case.

ITEM NO. 2—COMPLETION NEW 22D REGIMENT ARMORY, BOROUGH OF MANHATTAN.

Security on Estimate 1, Five Thousand Dollars (\$5,000); security on Estimate 2, Ten Thousand Dollars (\$10,000); security on Estimate 3, Eight Thousand Dollars (\$8,000).

Deposit on Estimate 1, Two Hundred and Fifty Dollars (\$250); deposit on Estimate 2, Five Hundred Dollars (\$500); deposit on Estimate 3, Four Hundred Dollars (\$400).

Time allowed on Estimate 1, ninety (90) working days; time allowed on Estimate 2, ninety (90) working days; time allowed on Estimate 3, ninety (90) working days.

ITEM NO. 3—FLAMING ARC LIGHTING SYSTEM, 2D BATTALION NAVAL MILITIA ARMORY, BOROUGH OF BROOKLYN.

Security, Fifteen Hundred Dollars (\$1,500); deposit, Seventy-five dollars (\$75). Time allowed for doing the work, sixty (60) working days.

ITEM NO. 4—STEEL LOCKERS, FURNISHINGS, RIFLE RACK, ETC., IN THE 22D REGIMENT ARMORY, BOROUGH OF MANHATTAN.

The security is as follows:
 Furniture, Ten Thousand Dollars (\$10,000).
 Carpets, etc., Three Thousand Five Hundred Dollars (\$3,500).
 Closets, Five Hundred Dollars (\$500).
 Silverware, etc., Fifteen Hundred Dollars (\$1,500).
 Steel lockers, etc., Fifteen Thousand Dollars (\$15,000).

000). 6—Cooking and kitchen equipment, One Thousand Four Hundred Dollars (\$1,400).

The deposit required is as follows:
 1—Furniture, Five Hundred Dollars (\$500).
 2—Carpets, etc., One Hundred and Seventy-five Dollars (\$175).
 3—Closets, Twenty-five Dollars (\$25).
 4—Silverware, etc., Seventy-five Dollars (\$75).
 5—Steel lockers, etc., Seven Hundred and Fifty Dollars (\$750).
 6—Cooking and kitchen equipment, Seventy Dollars (\$70).

The time allowed for doing the work is as follows:
 1—Furniture, ninety (90) working days. 2—Carpets, etc., sixty (60) working days. 3—Closets, forty-five (45) working days. 4—Silverware, etc., sixty (60) working days. 5—Steel lockers, etc., ninety (90) working days. 6—Cooking and kitchen equipment, sixty (60) working days.

ITEM NO. 5—FURNISHING AND DELIVERING 5,275 GROSS TONS OF BUCKWHEAT No. 1 COAL, AT THE DIRECTION OF THE ARMORY BOARD, IN CONFORMITY WITH THE SPECIFICATIONS, AS FOLLOWS:

Manhattan and The Bronx, 2,950 gross tons. Brooklyn and Queens, 2,325 gross tons.

Alternate bids will be received as follows: Price per ton, delivered at armories, trimmed in bins. Price per ton, delivered at tidewater, New York Harbor.

The amount of security required is fifty (50) per cent. of the amount of bid, and a deposit of five (5) per cent. of the amount of the bond to be deposited when handing in the bid. Where the total of the bid is under \$1,000, the deposit must be two and one-half (2½) per cent. of the amount of the bid.

ITEM NO. 6—LIGHTING FIXTURES, NEW 22D REGIMENT ARMORY, BOROUGH OF MANHATTAN.

Section A—Electric and gas fixtures. Security, Seven Thousand Five Hundred Dollars (\$7,500). Deposit, Three Hundred and Seventy-five Dollars (\$375). Time allowed, ninety (90) working days.

Section B—Flaming arc for drill hall. Security, One Thousand Five Hundred Dollars (\$1,500). Deposit, Seventy-five Dollars (\$75). Time allowed, ninety (90) working days.

For Item No. 1, alterations, improvements, etc., to the 14th Regiment Armory, Borough of Brooklyn, plans may be examined at the office of the architect, F. L. Robinson, 331 Madison ave., Borough of Manhattan.

For Item No. 2, completion new 22d Regiment Armory, Borough of Manhattan, plans may be examined at the office of the architects, Walker & Morris, 200 5th ave., Borough of Manhattan.

For Item No. 3, plans may be examined and information obtained from the Department of Water Supply, Gas and Electricity, 21 Park row, Borough of Manhattan.

For Item No. 4, steel lockers, furnishings, etc., cuts, sketches, etc., may be examined at the office of the Armory Board, Hall of Records, Manhattan.

For Item No. 6, lighting fixtures, new 22d Regiment Armory, plans may be examined at the office of the architects, Walker & Morris, 200 5th ave., Manhattan.

The bids will be compared and the contracts awarded at a lump or aggregate sum for each item.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Armory Board, 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 at the office of the Armory Board, Suite 6, New Hall of Records (basement), Borough of Manhattan.

WILLIAM J. GAYNOR, Mayor; WILLIAM PURDY MITCHELL, President of the Board of Aldermen; JOHN G. EDDY, Brigadier-General, 2d Brigade; R. P. FORSHEW, Commanding Naval Militia, New York; ELMORE F. AUSTIN, Chief of Coast Artillery; LAWSON PURDY, President, Department of Taxes and Assessments, the Armory Board. a10,22

See General Instructions to Bidders on the last page, last column, of the "City Record."

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

The contractor will be required to complete the work as soon as practicable and within a period of forty (40) months.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau street, Borough of Manhattan, City of New York, until the 16th day of September, 1912, at twelve (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.

A statement based upon estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent, as near as practicable, of the work required, is to be found in the schedule forming a part of the form of contract's proposal. The quantities given in such schedule are approximate only, being given as a basis for the uniform comparison of bids, and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Part of Rapid Transit Railroad—Route No. 5, Section No. 1," and must be delivered to the Commission or its Secretary; and, in the presence of the person submitting 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 separate certified check drawn upon a national or state bank or trust company having its principal office in the City of New York, satisfactory to the Commission and payable to the order of the Comptroller of the City of New York for the sum of fifteen thousand dollars (\$15,000). Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

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

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

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

A 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 consented to 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 for seventy-five thousand dollars (\$75,000). 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, fifteen (15) per centum of the amounts certified from time to time to be due to the contractor will be deducted until the amounts so deducted and retained shall equal the sum of two hundred thousand dollars (\$200,000). Thereafter there shall be so deducted and retained for such purpose ten (10) per centum of the amounts certified from time to time to be due to the contractor. The contractor may from time to time withdraw portions of the amounts so retained upon depositing in lieu thereof corporate stock of the City of New York equal in market value to the amount so withdrawn.

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond or to make the required deposit, 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 such 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 interests 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.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to 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 to make the required deposit, then the invitation to contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage 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 in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, August 6, 1912.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WILLIAM R. WILCOX, Chairman.

TRAVIS H. WHITNEY, Secretary. a9,810

See General Instructions to Bidders on the last page, last column, of the "City Record."

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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 Richmond,
 2552—Constructing and repairing sidewalks in Bennett st., between Jewett and Richmond aves.; Heberton ave., between Post ave. and north end of street; Columbia st., between Richmond ter-

race and Manor road; Richmond terrace, between Columbia st. and Nicholas ave.; Manor road, between Columbia st. and Richmond turnpike; Richmond ave., between Morningstar road and Bergen Point Ferry; Sharpe ave., between Richmond terrace and Harrison ave.; James st., between Elm st. and Sharpe ave.; Grove ave., between Richmond and Sharpe aves.; Harrison ave., between Nicholas and Richmond aves.; Maple ave., between Richmond terrace and Harrison ave.; Elm st., between Richmond terrace and Harrison ave.; Lafayette ave., between Richmond terrace and Harrison ave.; Church st., between Richmond ave. and end of street; Ann st., between Richmond ave. and Avenue B; Vreeland st., between Richmond ave. and Cottage place; Elizabeth st., between Richmond ave. and Cottage place; Bond st., between Jewett ave. and Heberton ave.; Anderson ave., between Heberton ave. and Simonson place; Albion place, between Richmond ave. and Washington place; Broadway, between Richmond terrace and end of street; Simonson place, between Bond and Catherine sts.; Jewett ave., between Richmond terrace and Elm ave., and in Hatfield ave., between Nicholas ave. and Richmond ave., 1st and 3d Wards.

Affecting property in the following blocks: 1st Ward—District 4, Plot 2, Blocks 2 and 10; District 6, Plot 1, Block 4; Plot 2, Block 8; Plot 1, Block 4; Plot 2, Block 7; Plot 3, Block 1; Plot 6, Blocks 1 and 2; Plot 4, Block 7; Plot 5, Blocks 79, 82 and 83; District 4, Plot 3, Block 1; District 5, Plot 18, Blocks 2, 4, 7, 8; Plot 19, Block 1; Plot 17, Blocks 1, 7, 10, 13, 16, 18; Plot 14, Block 1. 3d Ward—Blocks 1, 4, 5, 6, 9, 10, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 68b, 69, 163 and 164.

Borough of Brooklyn.
2610—Laying sidewalks on St. Johns place, between Utica and Saratoga aves.
2614—Basin at the southwest corner of Seeley and Coney Island ave.
Affecting Block No. 5268.

2612—Paving 61st st., between 6th and 7th aves.

The area extends to within 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, 320 Broadway, New York, on or before September 10, 1912, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

JOS. P. HENNESSY, WM. C. ORMOND, ANTONIO C. ASTARITA, Board of Assessors.
THOMAS J. DRENNAN, Secretary, 320 Broadway, City of New York, Borough of Manhattan, August 10, 1912. a10,21

BELLEVUE AND ALLIED HOSPITALS.

BELLEVUE AND ALLIED HOSPITALS DEPARTMENT OF NEW YORK CITY, 26TH ST. AND 1ST AVE., 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, 415 E. 26th st.) until 3 o'clock p. m. on

TUESDAY, AUGUST 20, 1912.

FOR ALL LABOR AND MATERIAL REQUIRED FOR THE ERECTION AND COMPLETION OF NEW ROOF WARDS AND OTHER WORK IN CONNECTION THEREWITH ON THE ROOFS OF PAVILIONS A AND B OF THE NEW BELLEVUE HOSPITAL, LOCATED ON 1ST AVE., 26TH TO 29TH STS., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for doing and completing all the work included under this contract will be not more than one hundred and fifty (150) consecutive calendar days from date of mailing notice that the Comptroller has attached his signature to the contract. The surety required will be Thirteen Thousand Dollars (\$13,000). The bids will be compared and the contract awarded as soon thereafter as practicable, according to law.

Blank forms may be obtained at the office of the Contract Clerk, entrance 400 E. 29th st., Borough of Manhattan.

JOHN W. BRANNAN, President of the Board of Trustees, Bellevue and Allied Hospitals.
Dated August 7, 1912. a8,20

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF BELLEVUE AND ALLIED HOSPITALS, NEW YORK CITY, 26TH ST. AND 1ST AVE., 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, 415 E. 26th st.), until 3 o'clock p. m. on

TUESDAY, AUGUST 20, 1912.

FOR ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF ADDITIONAL BALCONIES ON PAVILIONS A AND B OF THE NEW BELLEVUE HOSPITAL, SITUATED 26TH ST. TO 29TH ST., 1ST AVE. TO EAST RIVER, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

The time allowed for doing and completing all the work included under this contract will be not more than seventy-five (75) consecutive calendar days from the date of mailing notice that the Comptroller has attached his signature to the contract.

The surety required will be Five Thousand Dollars (\$5,000). The bids will be compared and the contract awarded as soon thereafter as practicable, according to law.

Blank forms may be obtained at the office of the Contract Clerk, entrance 400 E. 29th st., Borough of Manhattan.

JOHN W. BRANNAN, President of the Board of Trustees, Bellevue and Allied Hospitals.
Dated July 6, 1912. a8,20

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, ROOM 1903, 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

THURSDAY, AUGUST 22, 1912.

Borough of Brooklyn.
1. FOR FURNISHING, DELIVERING AND ERECTING PLATFORMS, GALLERIES AND STAIRWAYS IN THE RIDGEWOOD NORTH SIDE PUMPING STATION, BOROUGH OF BROOKLYN.

The time allowed for doing and completing

the entire work will be one hundred (100) consecutive working days.

The security required will be Three Thousand Dollars (\$3,000).

2. FOR MAKING ALTERATIONS TO EQUIPMENTS IN THE HIGH PRESSURE FIRE SERVICE PUMPING STATIONS, BOROUGH OF BROOKLYN.

The time allowed for doing and completing the entire work will be one hundred (100) working days.

The security required will be Six Thousand Dollars (\$6,000).

3. FOR REPAIRS AND RENEWALS OF THE COAL CONVEYOR IN THE MORRIS BOILER ROOM RIDGEWOOD NORTH SIDE PUMPING STATION, ATLANTIC AVE. AND LOGAN ST., BOROUGH OF BROOKLYN.

The time allowed for doing and completing the entire work will be ninety (90) consecutive working days.

The security required will be Two Thousand Dollars (\$2,000).

The bidder will state the price of work contained in the specifications or schedule by which the bids will be tested. The bids will be compared and the award made to the lowest formal bidder in a lump or aggregate sum on each contract.

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 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 Department, Room 1903, 13 to 21 Park row, Borough of Manhattan, where any further information desired may be obtained.

HENRY S. THOMPSON, Commissioner.
Dated August 7, 1912. a10,22

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1903, 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

THURSDAY, AUGUST 22, 1912.
Boroughs of Manhattan and The Bronx.

FOR FURNISHING, DELIVERING AND INSTALLING A STEAM ENGINE DRIVEN FAN BLOWER AND ALL OTHER APPURTENANCES COMPLETE, IN THE 179TH ST. PUMPING STATION, BOROUGH OF MANHATTAN.

The time allowed for doing and completing the entire work will be seventy-five (75) consecutive working days.

The security required will be Eight Hundred Dollars (\$800).

The bidder will state price of work contained in the specifications or schedule by which the bids will be tested. The bids will be compared and the award made to the lowest formal bidder in a lump or aggregate sum.

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 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 Department, Room 1903, 13 to 21 Park row, Borough of Manhattan, where any further information desired may be obtained.

HENRY S. THOMPSON, Commissioner.
Dated August 7, 1912. a10,22

See General Instructions to Bidders on the last page, last column, of the "City Record."

BOROUGH OF THE BRONX.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF THE BRONX, MUNICIPAL BUILDING, CROTONA PARK, 177TH ST. AND 3D AVE.
SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of the Bronx at the above office until 10.30 a. m. on

TUESDAY, AUGUST 22, 1912.

No. 1. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY IN GLEBE AVE., FROM WESTCHESTER AVE. TO ZEREGA AVE., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

- 2,420 cubic yards earth excavation.
- 50 cubic yards rock excavation.
- 9,620 cubic yards filling.
- 3,110 linear feet new curb.
- 13,010 square feet cement flagging.
- 1,620 square feet new bridgestone.
- 150 cubic yards dry rubble masonry.
- 22 cubic yards class "A" concrete.
- 350 linear feet vitrified pipe, 12 inches in diameter.

- 1,000 feet (B. M.) timber and lumber.
- 1,400 linear feet guard rail.
- 1,070 pounds steel reinforcing bars.

The time allowed for the completion of the work will be one hundred (100) working days.

The amount of security required will be Five Thousand Dollars (\$5,000).

No. 2. FOR CONSTRUCTING A SEWER AND APPURTENANCES IN WHITE PLAINS ROAD, BETWEEN E. 177TH ST. AND WALKER AVE.; IN WOOD AVE., BETWEEN WHITE PLAINS ROAD, AND BEACH AVE.; IN MCGRAW AVE., BETWEEN WHITE PLAINS ROAD AND E. 177TH ST.; IN E. 177TH ST., BETWEEN MCGRAW AVE. AND THERIOT AVE.; IN LELAND AVE., BETWEEN MCGRAW AVE. AND WOOD AVE., AND IN THERIOT AVE., BETWEEN E. 177TH ST. AND WOOD AVE., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

- 641 linear feet of concrete sewer, 9 feet by 6 feet 6 inches.
- 490 linear feet of concrete sewer, 6 feet by 6 feet.
- 255 linear feet of concrete sewer, 5 feet 6 inches by 6 feet.
- 238 linear feet of concrete sewer, 4 feet 3 inches by 5 feet 6 inches.
- 41 linear feet of concrete sewer, 50 inches by 62 inches.
- 8 linear feet of concrete sewer, 42 inches by 56 inches.
- 885 linear feet of concrete sewer, 3 feet 6 inches diameter.
- 37 linear feet of concrete sewer, 2 feet 9 inches diameter.
- 42 linear feet of pipe sewer, 30-inch.
- 829 linear feet of pipe sewer, 24-inch.
- 2 linear feet of pipe sewer, 20-inch.
- 176 linear feet of pipe sewer, 18-inch.
- 451 linear feet of pipe sewer, 15-inch.
- 3,370 linear feet of pipe sewer, 12-inch.
- 600 spurs for house connections over and above the cost per linear foot of sewer.
- 76 manholes, complete.
- 22 receiving basins, complete.
- 4,000 cubic yards of rock excavation.
- 200 cubic yards of class "B" concrete.

75 cubic yards of rubble masonry in mortar.
455 cubic yards of dry rubble masonry and riprap.

40,000 feet (B. M.) of timber.
6,750 pounds of steel bars in foundation.
100 linear feet of pipe drain, 12-inch to 24-inch.

The time allowed for constructing and completing the work will be three hundred (300) consecutive working days.

The amount of security required will be Forty-five Thousand Dollars (\$45,000).

No. 3. FOR CONSTRUCTING RECEIVING BASINS AND APPURTENANCES AT THE NORTHWEST CORNER OF HUNTS POINT AVE. AND EASTERN BOULEVARD; NORTHEAST CORNER OF HUNTS POINT AVE. AND WHITTIER ST.; NORTHEAST CORNER OF HUNTS POINT AVE. AND LONGFELLOW AVE.; NORTHEAST CORNER OF HUNTS POINT AVE. AND FAILE ST.; NORTHEAST CORNER OF SPOFFORD AVE. AND COSTER ST.; NORTHEAST CORNER AND NORTHWEST CORNER OF SPOFFORD AVE. AND MANIDA ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

- 166 linear feet of pipe culvert, 12-inch.
- 4 receiving basins, complete.
- 5 cubic yards of rock excavation.
- 5 cubic yards of class "B" concrete.
- 3,000 feet (B. M.) of timber.

The time allowed for the completion of the work will be twenty (20) consecutive working days.

The amount of security required will be Seven Hundred Dollars (\$700).

No. 4. FOR CONSTRUCTING A SEWER AND APPURTENANCES IN EDGEWATER ROAD, BETWEEN SENECA AVE. AND GARRISON AVE., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

- 131 linear feet of pipe sewer, 15-inch.
- 543 linear feet of pipe sewer, 12-inch.
- 96 spurs for house connections over and above the cost per linear foot of sewer.
- 8 manholes, complete.
- 330 cubic yards of class "B" concrete.
- 7,000 feet (B. M.) of timber.
- 10,500 linear feet of piles, including spikes and wrought iron bands.
- 2,000 pounds of steel bars.
- 50 linear feet of pipe drain, 12-inch to 24-inch.

The time allowed for the completion of the work is one hundred and fifty (150) consecutive working days.

The amount of security required will be Five Thousand Dollars (\$5,000).

No. 5. FOR REGULATING, REGRADING AND PAVING WITH GRANITE BLOCKS ON A SAND FOUNDATION THE ROADWAY OF BURNSIDE AVE., FROM AQUEDUCT AVE. TO THE WESTERLY SIDE OF SEDGWICK AVE., AND SETTING, RESETTING OR RELAYING CURB, FLAGGING AND CROSSWALKS WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PRELIMINARY PAVEMENT).

The Engineer's estimate of the work is as follows:

- 6,900 square yards completed granite block pavement on a sand foundation, laid with sand joints, and keeping the same in repair for one year from date of acceptance.
- 1,050 linear feet of new curbstone, furnished and set.
- 1,150 linear feet of old curbstone, rejoined, recut on top and reset.
- 1,909 square feet of new bridgestone for crosswalks, furnished and laid.
- 1,844 square feet of old bridgestone, rejoined and reset.

- 425 cubic yards of filling.
- 400 square feet of new bluestone flagging.
- 2,325 square feet of old flagging.
- 240 linear feet of vitrified pipe, 12 inches in diameter, including excavation of all kinds and back filling.
- 2 type "B" inlets.

The time allowed for the completion of the work will be one hundred (100) consecutive working days.

The amount of security required will be Seven Thousand Dollars (\$7,000).

No. 6. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION THE ROADWAY OF MOSHOLU PARKWAY SOUTH, FROM BRIGGS AVE. TO VAN CORTLANDT AVE., AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PERMANENT PAVEMENT).

The Engineer's estimate of the work is as follows:

- 4,940 square yards of completed asphalt block pavement (3-inch blocks) and keeping the same in repair for five years from date of acceptance.
- 975 cubic yards of class "B" concrete, including mortar bed.
- 1,600 linear feet of new curbstone, furnished and set.
- 1,120 linear feet of old curbstone, rejoined, recut on top and reset.

The time allowed for the completion of the work will be forty (40) consecutive working days.

The amount of security required will be Five Thousand Dollars (\$5,000).

No. 7. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF ST. LAWRENCE AVE., FROM WALKER AVE. TO MERRILL ST.; ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PRELIMINARY PAVEMENT).

The Engineer's estimate of the work is as follows:

- 3,820 square yards completed bituminous concrete and keeping the same in repair for five years from date of acceptance.
- 440 cubic yards of cement concrete.
- 200 linear feet of curbstone, adjusted.

The time allowed for the completion of the work will be thirty (30) consecutive working days.

The amount of security required will be Two Thousand Two Hundred Dollars (\$2,200).

No. 8. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF COSTER ST., FROM LAFAYETTE AVE. TO RANDALL AVE.; ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PRELIMINARY PAVEMENT).

The Engineer's estimate of the work is as follows:

- 5,330 square yards of completed bituminous concrete and keeping the same in repair for five years from date of acceptance.
- 610 cubic yards of cement concrete.
- 110 linear feet of curbstone, adjusted.

The time allowed for the completion of the work will be forty (40) consecutive working days.

The amount of security required will be Three Thousand Dollars (\$3,000).

No. 9. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION THE ROADWAY OF BRYANT AVE., FROM E. 172D ST. TO E. 174TH ST., AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PERMANENT PAVEMENT).

The Engineer's estimate of the work is as follows:

2,405 square yards of completed asphalt block pavement (3-inch blocks) and keeping the same in repair for five years from date of acceptance.

480 cubic yards of class "B" concrete, including mortar bed.

250 linear feet of new curbstone, furnished and set.

1,110 linear feet of old curbstone, rejoined, recut on top and reset.

The time allowed for the completion of the work will be twenty-five (25) consecutive working days.

The amount of security required will be Three Thousand Dollars (\$3,000).

No. 10. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION THE ROADWAY OF TELLER AVE., FROM E. 164TH ST. TO E. 167TH ST.; SETTING AND RESETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PERMANENT PAVEMENT).

The Engineer's estimate of the work is as follows:

- 4,350 square yards of completed asphalt block pavement (3-inch blocks) and keeping the same in repair for five years from date of acceptance.
- 880 cubic yards of class "B" concrete, including mortar bed.
- 375 linear feet of new curbstone, furnished and set.
- 2,000 linear feet of curbstone, rejoined, recut on top and reset.

The time allowed for the completion of the work will be forty (40) consecutive working days.

The amount of security required will be Five Thousand Dollars (\$5,000).

No. 11. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF COMMONWEALTH AVE., FROM WALKER AVE. TO MERRILL ST.; ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PRELIMINARY PAVEMENT).

The Engineer's estimate of the work is as follows:

- 3,440 square yards of completed bituminous concrete and keeping the same in repair for five years from date of acceptance.
- 400 cubic yards of cement concrete.
- 1,000 linear feet of curbstone, adjusted.

The time allowed for the completion of the work will be thirty (30) consecutive working days.

The amount of security required will be Two Thousand Dollars (\$2,000).

No. 12. FOR PAVING WITH BITUMINOUS CONCRETE ON A CEMENT CONCRETE FOUNDATION THE ROADWAY OF WALTON AVE., FROM FORDHAM ROAD TO BURNSIDE AVE., AND ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO (PRELIMINARY PAVEMENT).

The Engineer's estimate of the work is as follows:

- 2,830 square yards of completed bituminous concrete and keeping the pavement in repair for five years from date of acceptance.
- 320 cubic yards of cement concrete.
- 1,000 linear feet of curbstone, adjusted.

The time allowed for the completion of the work will be twenty-five (25) consecutive working days.

The amount of security required will be One Thousand Five Hundred Dollars (\$1,500).

No. 13. FOR FURNISHING AND DELIVERING 100,000 GALLONS OF ASPHALT ROAD OIL.

The time allowed for the delivery of the article and the performance of the contract will be by or before December 31, 1912.

The amount of security required will be Three Thousand Dollars (\$3,000).

No. 14. FOR FURNISHING AND DELIVERING BROKEN TRAP ROCK STONE AND SCREENINGS.

1,000 cubic yards of broken trap rock stone.

2,400 cubic yards of broken trap rock stone screenings.

The time allowed for the delivery of the articles and the performance of the contract will be as directed during the year 1912.

The amount of security required will be Three Thousand Five Hundred Dollars (\$3,500).

Blank forms can be obtained upon application therefor, the plans and specifications may be seen and other information obtained at said office.

CYRUS C. MILLER, President.
a15,27

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 E. 26TH ST., NEW YORK.

BOROUGH 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

WEDNESDAY, AUGUST 28, 1912.
FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PSYCHOPATHIC WARD OBSERVATION BUILDING, AT THE KINGS COUNTY HOSPITAL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

The time allowed for the completion of the work and full performance of the contract is one hundred and seventy-five (175) consecutive working days.

The surety required will be Thirty-five Thousand Dollars (\$35,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of Frank J. Helmle, Architect, 190 Montague st., Borough of Brooklyn, The City of New York, where plans and specifications may be seen.

MICHAEL J. DRUMMOND, Commissioner.
Dated August 14, 1912. a16,28

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF E. 26TH ST., NEW YORK.

BOROUGH 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

TWEEN KINGSLAND AND DEBEVOISE AVES., BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

The time allowed for doing and completing the work will be two hundred and fifty (250) consecutive working days.

The security required will be One Hundred and Fifty Thousand Dollars (\$150,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of Frank J. Helmle, Architect, 190 Montague st., Borough of Brooklyn, The City of New York, where plans and specifications may be seen.

MICHAEL J. DRUMMOND, Commissioner. Dated August 10, 1912. a10,22

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF E. 26TH ST., 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.

MONDAY, AUGUST 19, 1912.

FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR THE ERECTION AND COMPLETION OF AN INDEPENDENT GENERATING PLANT FOR THE SEA VIEW HOSPITAL, SITUATED ON THE PROPERTY OF THE DEPARTMENT OF PUBLIC CHARITIES, MANOR ROAD, ABOUT 2,500 FEET SOUTH OF BRADLEY AVE., BOROUGH OF RICHMOND, THE CITY OF NEW YORK.

Sealed bids or estimates will be received at the same time and place.

FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY OR REQUIRED FOR THE ERECTION AND COMPLETION OF AN ADDITIONAL BOILER AND ACCESSORIES FOR THE SEA VIEW HOSPITAL, SITUATED ON THE PROPERTY OF THE DEPARTMENT OF PUBLIC CHARITIES, MANOR ROAD, ABOUT 2,500 FEET SOUTH OF BRADLEY AVE., BOROUGH OF RICHMOND, THE CITY OF NEW YORK.

The time allowed for doing and completing the entire work and the full performance of each contract is one hundred and fifty (150) consecutive calendar days.

The security required will be for the Independent Power Plant (Title V) Twenty-five Thousand Dollars (\$25,000); for the Additional Boiler and Accessories (Title VI) Seven Thousand Five Hundred Dollars (\$7,500).

The bidder shall state in writing and figures, without interlineation, alterations or erasure, one (1) aggregate price for the whole work of each contract as shown, noted, indicated or specified, as each contract is entire and for a complete job, and embraces the entire completion of the work in every respect and detail. Each contract will be awarded separately.

Blank forms and further information may be obtained at the office of Raymond F. Almiral, Architect, 185 Madison ave., Borough of Manhattan, The City of New York, where plans and specifications may be seen.

MICHAEL J. DRUMMOND, Commissioner. Dated August 7, 1912. a7,19

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF E. 26TH ST., 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.

MONDAY, AUGUST 19, 1912.

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF OPERATING ROOMS AND ACCESSORIES IN THE CUPOLA OF METROPOLITAN HOSPITAL, BLACKWELLS ISLAND, THE CITY OF NEW YORK.

The time allowed for the completion of the work and full performance of the contract is sixty (60) consecutive working days.

The security required will be Four Thousand Dollars (\$4,000).

The bidder will state one aggregate price for the whole work described and specified, as the contract is entire for a complete job.

Blank forms and further information may be obtained at the office of Frank J. Helmle, Architect, 190 Montague st., Borough of Brooklyn, The City of New York, where plans and specifications may be seen.

MICHAEL J. DRUMMOND, Commissioner. Dated August 7, 1912. a7,19

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF E. 26TH ST., 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 10.30 O'CLOCK A. M.

TUESDAY, AUGUST 27, 1912.

FOR FURNISHING AND DELIVERING THREE (3) MOTOR-DRIVEN ROSE WAGONS FOR THE HIGH PRESSURE SERVICE.

The time for the delivery of the articles, materials and supplies and the performance of the contract is one hundred and twenty (120) days.

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 herein contained or hereto annexed, per piece, the unit of measure, by which the bids will be tested. The extension must be made and footed up, as the bids will be read from the total 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 Fire Department, Nos. 157 and 159 E. 67th st., Manhattan.

JOSEPH JOHNSON, Fire Commissioner. a16,27

See General Instructions to Bidders on the last page, last column, of the "City Record."

HEADQUARTERS OF THE FIRE DEPARTMENT OF THE CITY OF NEW YORK, NOS. 157 AND 159 E. 67TH ST., 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.

MONDAY, AUGUST 26, 1912.

Borough of Queens.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR ALTERATIONS TO THE QUARTERS OF ROSE COMPANY NO. 8, LOCATED AT WEST SIDE OF 16TH ST., SOUTH OF 4TH AVE., COLLEGE POINT.

The time for the completion of the work and the full performance of the contract is forty-five (45) days.

The amount of security required is One Thousand Five Hundred Dollars (\$1,500).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained at the office of the Fire Department, Nos. 157 and 159 E. 67th st., Manhattan.

JOSEPH JOHNSON, Fire Commissioner. a14,26

See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF E. 26TH ST., NEW YORK.

SUPREME COURT—FIRST DEPARTMENT.

FIRST JUDICIAL DEPARTMENT.

In the matter of acquiring title by The City of New York to certain lands and premises not now owned by The City of New York in the block bounded by Jackson avenue, East One Hundred and Fifty-eighth street, Trinity avenue and East One Hundred and Sixty-eighth street, in the Twenty-third Ward, in the Borough of The Bronx, in The City of New York, duly selected as a site for school purposes, according to law.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York bearing date the 12th day of August, 1912, and filed and entered in the office of the Clerk of the County of New York on the 13th day of August, 1912, Messrs. Henry A. Gumbleton, Martin Geisler and James F. Donnelly, were appointed Commissioners of Estimate and Appraisal in the above entitled proceeding.

Notice is further given that, pursuant to the statutes in such case made and provided, the said Messrs. Henry A. Gumbleton, Martin Geisler and James F. Donnelly will attend at a Special Term of the Supreme Court to be held in Part II thereof, in the County Court House, in the Borough of Manhattan, City of New York, on the 28th day of August, 1912, at 11 o'clock in the forenoon of that day, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any person having an interest in said proceeding, as to their qualifications to act as Commissioners of Estimate and Appraisal in said proceeding.

Dated New York, August 14, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, New York City. a16,27

FIRST JUDICIAL DEPARTMENT.

FIRST JUDICIAL DEPARTMENT.

In the matter of the application of The City of New York, acting by and through the Commissioner of Docks, relative to acquiring right and title to and possession of certain uplands and lands, wharf property, wharfage rights, terms, easements, emoluments and privileges necessary to be taken for the improvement of the water-front of The City of New York, on the North River, between West Fifteenth and West Eighteenth streets, and the easterly side of the marginal street, wharf or place adopted by the Board of Docks, and approved by the Commissioners of the Sinking Fund and the North River pursuant to the plan heretofore adopted by the Board of Docks and approved by the Commissioners of the Sinking Fund.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York bearing date the 12th day of August, 1912, and filed and entered in the office of the Clerk of the County of New York on the 13th day of August, 1912, Charles J. Leslie was appointed Commissioner of Estimate and Assessment in the above entitled proceeding in the place and stead of Charles N. Morgan, deceased.

Notice is further given, pursuant to the statutes in such case made and provided, that the said Charles J. Leslie will attend at a Special Term of the Supreme Court to be held in Part II thereof, in the County Court House, in the Borough of Manhattan, City of New York, on the 28th day of August, 1912, at 11 o'clock in the forenoon of that day, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any person having an interest in said proceeding, as to his qualifications to act as Commissioner of Estimate and Assessment in said proceeding.

Dated New York, August 14, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, New York City. a16,27

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 widening of EAST ONE HUNDRED AND SEVENTY-FOURTH STREET, from Southern boulevard to West Farms road, in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, First Department, at a Special Term thereof, to be held in Part I thereof, in and for the County of New York, in the County Court House, in the Borough of Manhattan, City of New York, on the 28th day of August, 1912, at the opening of Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and one Commissioner of Assessment in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title in fee by The City of New York, for the use of the public, to all the lands and premises, together with the buildings thereon and the appurtenances thereto belonging, required for the widening of East One Hundred and Seventy-fourth street, from Southern boulevard to West Farms road, in the Twenty-fourth Ward, Borough of The Bronx, City of New York, being the following-described pieces or parcels of land:

Parcel "A." Beginning at the intersection of the western line of Hoe avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the western line of Hoe avenue for 20 feet; thence westerly deflecting 90 degrees to the left for 172.235 feet to the southern line of Boston road; thence southwesterly along the southern line of Boston road for 22.572 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence easterly along the northern line of East One Hundred and Seventy-fourth

street as legally opened for 182.698 feet to the point of beginning.

Parcel "B."

Beginning at the intersection of the eastern line of Hoe avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the eastern line of Hoe avenue for 20 feet; thence easterly deflecting 90 degrees to the right for 200 feet to the western line of Vyse avenue; thence southerly along the western line of Vyse avenue for 20 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence westerly along the northern line of East One Hundred and Seventy-fourth street as legally opened for 200 feet to the point of beginning.

Parcel "C."

Beginning at the intersection of the western line of Bryant avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the western line of Bryant avenue for 20 feet; thence westerly deflecting 90 degrees to the left for 200 feet to the eastern line of Vyse avenue; thence southerly along the eastern line of Vyse avenue for 20 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence easterly along the northern line of East One Hundred and Seventy-fourth street as legally opened for 200 feet to the point of beginning.

Parcel "D."

Beginning at the intersection of the eastern line of Bryant avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the eastern line of Bryant avenue for 20 feet; thence easterly deflecting 90 degrees to the right for 200 feet to the western line of Longfellow avenue; thence southerly along the western line of Longfellow avenue for 20 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence westerly along the northern line of East One Hundred and Seventy-fourth street as legally opened for 200 feet to the point of beginning.

Parcel "E."

Beginning at the intersection of the western line of Boone avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the western line of Boone avenue for 20 feet; thence westerly deflecting 90 degrees to the left for 200 feet to the eastern line of Longfellow avenue; thence southerly along the eastern line of Longfellow avenue for 20 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence easterly along the northern line of East One Hundred and Seventy-fourth street as legally opened for 200 feet to the point of beginning.

Parcel "F."

Beginning at the intersection of the eastern line of Boone avenue with the northern line of East One Hundred and Seventy-fourth street as legally opened; thence northerly along the eastern line of Boone avenue for 20.029 feet; thence easterly deflecting 91 degrees 32 minutes 50 seconds to the right for 286.554 feet to the western line of West Farms road; thence southerly along the western line of West Farms road for 12.356 feet to the northern line of East One Hundred and Seventy-fourth street as legally opened; thence westerly along the northern line of East One Hundred and Seventy-fourth street as legally opened for 287.703 feet to the point of beginning.

Parcel "G."

Beginning at the intersection of the eastern line of Boone avenue with the southern line of East One Hundred and Seventy-fourth street as legally opened; thence easterly along the southern line of East One Hundred and Seventy-fourth street as legally opened for 290.177 feet to the western line of West Farms road; thence southerly along last-mentioned line for 7.836 feet; thence westerly for 290.160 feet to the point of beginning.

East One Hundred and Seventy-fourth street, from Southern boulevard to West Farms road, is shown on a map or plan entitled "Map or plan showing the changes of the lines and grades of East One Hundred and Seventy-fourth street, between Southern boulevard and West Farms road, and of the intersecting avenues affected thereby, in the Borough of The Bronx, City of New York. Prepared by the President of the Borough of The Bronx under authority of chapter 466 of the Laws of 1901," which map was filed in the office of the President of the Borough of The Bronx on February 29, 1912; in the office of the Register of the County of New York on February 26, 1912, as Map No. 1592, and in the office of the Counsel to the Corporation of The City of New York on February 27, 1912, in pigeonhole 182.

Land required for East One Hundred and Seventy-fourth street is located in Blocks 2983, 2990, 2991, 2997, 2998, 3003, 3010, 3011 and 3015 of Section 11 of the Land Map of The City of New York.

The Board of Estimate and Apportionment on the 18th day of April, 1912, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

Beginning at a point distant 100 feet northerly from the northerly line of East One Hundred and Seventy-sixth street, the said point being located on a line at right angles to East One Hundred and Seventy-sixth street and passing through a point on its southwesterly side where it is intersected by the prolongation of a line midway between Longfellow avenue and Boone avenue, as these streets are laid out south of East One Hundred and Seventy-fourth street, and running thence easterly and parallel with East One Hundred and Seventy-fourth street, as this street is laid out between West Farms road and Bronx River avenue to the intersection with the northwesterly line of Bronx River avenue; thence southwesterly at right angles to Bronx River avenue to a point distant 100 feet southwesterly from its southerly side; thence generally southwesterly and always distant 100 feet southerly from and parallel with the southeasterly line of Bronx River avenue to the intersection with the prolongation of a line midway between East One Hundred and Seventy-second street and East One Hundred and Seventy-third street, as these streets are laid out between Longfellow avenue and Boone avenue; thence westwardly along the said line midway between East One Hundred and Seventy-second street and East One Hundred and Seventy-third street and along the prolongation of the said line to the intersection with a line midway between Southern boulevard and Minford place; thence northwardly along the said line midway between Southern boulevard and Minford place; and along the prolongation of the said line to the intersection with the southeasterly line of Boston road; thence northwesterly at right angles to Boston road to a point distant 100 feet northwesterly from its northwesterly side; thence northwesterly and parallel with Boston road to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Southern boulevard, as this street is laid out at East One Hundred and Seventy-fifth street, the said distance being measured at right angles to Southern boulevard; thence northwardly along the said line parallel with Southern boulevard to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of East One Hundred and Seventy-fifth street, as this street is laid out where it adjoins Boston road, the said dis-

tance being measured at right angles to East One Hundred and Seventy-fifth street; thence easterly along the said line parallel with East One Hundred and Seventy-fifth street to a point distant 100 feet northwesterly from the northwesterly line of Boston road, the said distance being measured at right angles to Boston road; thence northwesterly and always distant 100 feet northwesterly from and parallel with the northwesterly line of Boston road to the intersection with the prolongation of a line distant 100 feet northeasterly from and parallel with the northeasterly line of East One Hundred and Seventy-sixth street, as this street is laid out where it adjoins Bryant avenue, the said distance being measured at right angles to East One Hundred and Seventy-sixth street; thence southeasterly along the said line parallel with East One Hundred and Seventy-sixth street and along the prolongations of the said line to the intersection with the northwesterly line of Longfellow avenue; thence easterly in a straight line to the point or place of beginning.

Dated New York, August 15, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a15,26

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 PUBLIC PARK bounded by West One Hundred and Thirty-seventh street, Edgcombe avenue and St. Nicholas avenue, in the Twelfth Ward, Borough of Manhattan, City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, First Department, at a Special Term thereof, to be held in Part I thereof, in and for the County of New York, in the County Court House in the Borough of Manhattan, City of New York, on the 28th day of August, 1912, at the opening of Court on that day, or as soon thereafter as counsel can be heard, for the appointment of Commissioners of Estimate and one Commissioner of Assessment in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title in fee by The City of New York for the use of the public to all the lands and premises, together with the buildings thereon and the appurtenances thereto belonging, required for the opening and extending of the Public Park bounded by West One Hundred and Thirty-seventh street, Edgcombe avenue and St. Nicholas avenue, in the Twelfth Ward, Borough of Manhattan, City of New York, being the following-described pieces or parcels of land, viz.:

Beginning at a point formed by the intersection of west house line of Edgcombe avenue and south house line of West One Hundred and Thirty-seventh street; thence southerly along the west house line of Edgcombe avenue distant 142.12 feet to the intersection of the westerly line of Edgcombe avenue with the easterly line of St. Nicholas avenue; thence northerly along the easterly line of St. Nicholas avenue distance 144.08 feet to the intersection of the easterly line of St. Nicholas avenue with the southerly line of West One Hundred and Thirty-seventh street; thence easterly along the southerly line of West One Hundred and Thirty-seventh street, distance 23.90 feet, to the point or place of beginning.

All this land is to be found in Section 7, Block 1960 of the Land Map of The City of New York.

The Board of Estimate and Apportionment on the 18th day of April, 1912, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

Bounded on the north by a line midway between West One Hundred and Thirty-seventh street and West One Hundred and Thirty-eighth street and by the prolongation of the said line; on the east by a line midway between Edgcombe avenue and Eighth avenue; on the south by a line midway between West One Hundred and Thirty-fifth street and West One Hundred and Thirty-sixth street 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 St. Nicholas avenue, the said distance being measured at right angles to St. Nicholas avenue.

Dated New York, August 15, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a15,26

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 FIELDSTON ROAD, from West Two Hundred and Sixty-second street to the southerly limit of the property of the Northern Broadway Realty Associates, in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, First Department, at a Special Term thereof, to be held in Part I thereof, in and for the County of New York, in the County Court House, in the Borough of Manhattan, City of New York, on the 28th day of August, 1912, at the opening of Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and one Commissioner of Assessment in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title in fee by The City of New York, for the use of the public, to all the lands and premises, together with the buildings thereon and the appurtenances thereto belonging, required for the opening and extending of Fieldston road, from West Two Hundred and Sixty-second street to the southerly limit of the property of the Northern Broadway Realty Associates, in the Twenty-fourth Ward, Borough of The Bronx, City of New York, being the following-described pieces or parcels of land:

Parcel "A." Beginning at a point in the southern line of Moshulu avenue distant 1,342.01 feet westerly from the intersection of the said line with the western line of Broadway; thence easterly along the southern line of Moshulu avenue for 100.12 feet; thence southeasterly curving to the left on the arc of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99.872 feet to a point of reverse curve; the radius of said circle drawn northeasterly from the eastern extremity of the preceding curve deflects 3 degrees 46 minutes 37.9 seconds to the left from the prolongation of said course; thence southerly on the arc of a circle of 330 feet radius for 233.68 feet; thence southerly on a line tangent to the preceding course for 88 feet; thence southwesterly curving to the right on the arc

of a circle of 202 feet radius for 99

of a circle of 393.9 feet radius for 312.79 feet; thence southwesterly on a line tangent to the preceding course for 187.957 feet; thence southwesterly curving to the left on the arc of a circle of 430 feet radius for 227.528 feet; thence southerly on a line tangent to the preceding course for 540.53 feet; thence southerly curving to the left on the arc of a circle of 368.007 feet radius and tangent to the preceding course for 263.483 feet; thence southeasterly on a line tangent to the preceding course for 423.922 feet; thence southerly curving to the right on the arc of a circle of 435 feet radius for 390.381 feet; thence southwesterly on a line tangent to the preceding course for 444.694 feet; thence southwesterly curving to the right on the arc of a circle of 1,460 feet radius for 31.67 feet; thence westerly for 100.88 feet on a line deflecting 7 degrees 19 minutes 33 seconds to the left from the prolongation of the radius of the preceding course drawn through the southern extremity of the said circle; thence northeasterly curving to the left on the arc of a circle of 1,360 feet radius for 42.36 feet; the prolongation of the radius of said circle drawn through the western extremity of the preceding course deflects 7 degrees 52 minutes 4 seconds to the right from said course; thence northeasterly on a line tangent to the preceding course for 444.694 feet; thence northerly curving to the left on the arc of a circle of 335 radius and tangent to the preceding course for 300.639 feet; thence northwesterly on a line tangent to the preceding course for 527.67 feet; thence northerly deflecting 17 degrees 15 minutes 49 seconds to the right for 116.215 feet; thence northerly deflecting 23 degrees 45 minutes 31 seconds to the right for 663.07 feet; thence northeasterly curving to the right on the arc of a circle of 530 feet radius for 280.44 feet and tangent to the preceding course; thence northeasterly for 187.957 feet on a line tangent to the preceding course; thence northerly curving to the left on the arc of a circle of 293.9 feet radius and tangent to the preceding course for 233.38 feet; thence northerly on a line tangent to the preceding course for 88 feet; thence northwesterly curving to the left on the arc of a circle of 230 feet radius and tangent to the preceding course for 162.87 feet to a point of reverse curve; thence northwesterly on the arc of a circle of 302 feet radius for 154.647 feet to the point of beginning.

Parcel "B."
Beginning at a point in the southern line of West Two Hundred and Fifty-third street distant 1,018.60 feet westerly from the intersection of said line with the western line of Broadway; thence westerly along the southern line of West Two Hundred and Fifty-ninth street for 60 feet; thence southerly deflecting 90 degrees to the left for 417.39 feet to the northern line of Mosholu avenue; thence easterly along last mentioned line for 64.64 feet; thence northerly for 393.34 feet to the point of beginning.

Parcel "C."
Beginning at a point in the northern line of West Two Hundred and Fifty-ninth street distant 1,004.09 feet westerly from the intersection of said line with the western line of Broadway; thence westerly along the northern line of West Two Hundred and Fifty-ninth street for 60 feet; thence northerly deflecting 90 degrees to the right for 353.11 feet to the land ceded for West Two Hundred and Sixty-first street on October 21, 1908; thence easterly along last mentioned line for 60 feet; thence southerly for 353.11 feet to the point of beginning.

Parcel "D."
Beginning at a point in the southern line of West Two Hundred and Sixty-first street distant 759.93 feet westerly from the intersection of said line with the western line of Broadway; thence westerly along the southern line of West Two Hundred and Sixty-first street for 61.46 feet; thence southerly deflecting 77 degrees 28 minutes 10 seconds to the left for 578.93 feet to the land ceded for West Two Hundred and Sixty-first street on October 21, 1908; thence easterly along last mentioned line for 60 feet; thence northerly for 592.27 feet to the point of beginning.

Parcel "E."
Beginning at a point in the northern line of West Two Hundred and Sixty-first street distant 746.53 feet westerly from the intersection of said line with the western line of Broadway; thence westerly along the northern line of West Two Hundred and Sixty-first street for 61.46 feet; thence northerly deflecting 102 degrees 31 minutes 50 seconds to the right for 484.60 feet; thence easterly deflecting 90 degrees to the right for 60 feet; thence southerly for 471.27 feet to the point of beginning.

Fieldston road is shown on a map or plan entitled "Map or plan showing the change of lines and the grades of Fieldston road, between West Two Hundred and Fifty-third street and Mosholu avenue, and of the avenues and streets affected thereby in the Twenty-fourth Ward, Borough of The Bronx, City of New York. Prepared by the President of the Borough of The Bronx under authority of chapter 466 of the Laws of 1901," which map was filed in the office of the President of the Borough of The Bronx on March 3, 1911; in the office of the Register of the County of New York on March 1, 1911, as Map No. 1488, and in the office of the Counsel to the Corporation of The City of New York on March 1, 1911, in pigeonhole 154. Fieldston road is also shown on a map or plan entitled "Plan and profile showing the change of lines and grades of Fieldston road, from Spuyten Duyvil parkway to West Two Hundred and Fifty-third street, and of the intersecting avenues and streets affected thereby in the Twenty-fourth Ward, Borough of The Bronx, City of New York. Prepared by the President of the Borough of The Bronx under authority of chapter 466 of the Laws of 1901," which map was filed in the office of the President of the Borough of The Bronx on June 21, 1911; in the office of the Register of the County of New York on June 17, 1911, as Map No. 1535, and in the office of the Counsel to the Corporation of The City of New York on June 19, 1911, in pigeonhole 163. Fieldston road, from Mosholu avenue to West Two Hundred and Sixty-second street, is shown on Section 25 of the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards, filed in the office of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards of The City of New York on November 22, 1895; in the office of the Register of the City and County of New York on November 23, 1895, as Map No. 1062, and in the office of the Secretary of State of the State of New York on November 23, 1895. Land required for Fieldston road is located in Blocks 3421 and 3423 of Section 13 of the Land Man of The City of New York. The Board of Estimate and Apportionment on the 18th day of April, 1912, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

1. Beginning at a point on the prolongation of a line midway between Liebige avenue and Tyndall avenue as these streets are laid out between Mosholu avenue and West Two Hundred and Fifty-ninth street where it is intersected by the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of West Two Hundred and Fifty-ninth street as this street is laid out immediately east of Tyndall avenue, the said distance being measured at right angles to West Two Hundred and Fifty-ninth street, and running thence easterly along the said line parallel with West Two Hundred and Fifty-ninth street and along

the prolongation of the said line to the intersection with a line midway between Spencer avenue and Huxley avenue; thence southwesterly along the said line midway between Spencer avenue and Huxley avenue and along the prolongation of the said line to the intersection with a line midway between Mosholu avenue and Faraday avenue; thence easterly along a line always midway between Mosholu avenue and Faraday avenue to the intersection with the prolongation of a line midway between Parkview place and Sylvan avenue and along the prolongations of the said line to the intersection with a line distant 100 feet westerly from and parallel with the westerly line of Sylvan avenue as this street is laid out adjoining West Two Hundred and Fifty-third street, the said distance being measured at right angles to Sylvan avenue; thence southwesterly along the said line parallel with Sylvan avenue and along the prolongation of the said line to a point distant 100 feet easterly from the easterly line of Seminole avenue as this street is laid out north of and adjoining West Two Hundred and Fifty-second street, the said distance being measured at right angles to Seminole avenue; thence southwesterly and always distant 100 feet easterly from and parallel with the easterly line of Seminole avenue and the prolongation thereof to the intersection with a radial line passing through a point on the easterly line of Fieldston road distant 308.241 feet northerly from its intersection with the northerly line of West Two Hundred and Fifty-ninth street, the said distance being measured along the line of Fieldston road; thence westerly along the said radial line to the intersection with the easterly line of Fieldston road; thence westwardly in a straight line to a point on the westerly line of Fieldston road distant 298.197 feet northerly from its intersection with the northerly line of West Two Hundred and Fifty-ninth street, the said distance being measured along the line of Fieldston road; thence westwardly along a radial line to the intersection with a line parallel with Fieldston road as laid out in the tangent between West Two Hundred and Fifty-third street and West Two Hundred and Fifty-second street, and passing through a point on the northerly line of West Two Hundred and Fifty-third street, the said distance being measured along the said line parallel with Fieldston road as laid out in the tangent between West Two Hundred and Fifty-third street and West Two Hundred and Fifty-second street, and passing through a point on the northerly line of West Two Hundred and Fifty-third street, the said distance being measured at right angles to Faraday avenue; thence northwardly along the said line parallel with Fieldston road to the intersection with the northerly line of West Two Hundred and Fifty-third street; thence northwardly along a line always distant 100 feet westerly from and parallel with the westerly line of Faraday avenue to the intersection with the said line parallel with Liebige avenue to the point or place of beginning.

2. Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of West Two Hundred and Sixty-second street, the said distance being measured at right angles to West Two Hundred and Sixty-second street; on the east by a line midway between Fieldston road and Spencer avenue and by the prolongation of the said line on the south by a line distant 100 feet northerly from and parallel with the northerly line of West Two Hundred and Fifty-ninth street, as this street is laid out immediately east of Tyndall avenue, the said distance being measured at right angles to West Two Hundred and Fifty-ninth street, and on the west by a line midway between Fieldston road and Tyndall avenue and by the prolongation of the said line.

Dated New York, August 15, 1912.
ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a15,26

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 LYVERE STREET, between Zerega avenue and West Farms road, in the Twenty-fourth Ward, Borough of The Bronx, City of New York; FULLER STREET, between Zerega avenue and Seddon street, in the Twenty-fourth Ward, Borough of The Bronx, City of New York; BUCK STREET, between Zerega avenue and Seventh street, in the Twenty-fourth Ward, Borough of The Bronx, City of New York; MACLAY AVENUE, between Parker street and West Farms road, in the Twenty-fourth Ward, Borough of The Bronx, City of New York; STEARNS STREET, between Glover street and Parker street, in the Twenty-fourth Ward, Borough of The Bronx, City of New York; DORSEY STREET (Carroll lane or place), between Zerega avenue and Seventh street, in the Twenty-fourth Ward, Borough of The Bronx, City of New York, as amended so as to relate to the foregoing streets as shown on a map or plan adopted by the Board of Estimate and Apportionment on the 23d day of March, 1911, and approved by the Mayor on the 30th day of March, 1911. First partial and separate report as to MACLAY AVENUE, between Parker street and West Farms road, in the Twenty-fourth Ward, Borough of The Bronx, 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 first partial and separate estimate of damage as to MacLAY avenue 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, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 26th day of August, 1912, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 17th day of September, 1912, at 1 o'clock p. m.

Second—That the area of assessment as amended, fixed and prescribed as the amended area of assessment for benefit by the Board of Estimate and Apportionment on the 4th day of May, 1911, 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 a point on a line midway between Seddon street and St. Peters avenue where it is intersected by a line distant 100 feet southeasterly from and parallel with the southeasterly line of MacLAY avenue, the said distance being measured at right angles to MacLAY avenue, and

running thence southeasterly along the said line midway between Seddon street and St. Peters avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southeasterly line of Dorsey street and the northwesterly line of St. Raymond avenue; thence southwesterly along the said bisecting line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southeasterly line of Zerega avenue and the northeasterly line of Parker street, as these streets are laid out between St. Raymond avenue and MacLAY avenue; thence northwesterly along the said bisecting line to the intersection with the prolongation of a line midway between Stearns street and St. Raymond avenue; thence southwesterly along the said line midway between Stearns street and St. Raymond avenue and along the prolongations of the said line to the intersection with the northerly line of St. Raymond avenue; thence northwesterly and parallel with Glover street to the intersection with the centre line of Castle Hill avenue; thence northwardly along the centre line of Castle Hill avenue to the intersection with a line distant 100 feet northwesterly from and parallel with the northwesterly line of Stearns street, the said distance being measured at right angles to Stearns street; thence northwardly along the said line parallel with Stearns street and along the prolongation of the said line to the intersection with a line midway between Glover street and Parker street; thence northwesterly along the said line midway between Glover street and Parker street to the intersection with the prolongation of a line distant 100 feet northwesterly from and parallel with the northwesterly line of MacLAY avenue as this street is laid out between Parker street and Zerega avenue, the said distance being measured at right angles to MacLAY avenue; thence northwardly along the said line parallel with MacLAY avenue and along the prolongation of the said line to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the northwesterly line of Zerega street and the southeasterly line of Parker street; thence northwardly along the said line parallel with MacLAY avenue and Castle Hill avenue; thence northwardly along the said bisecting line to the intersection with the centre line of Castle Hill avenue; thence northwardly along the centre line of Castle Hill avenue to a point distant 100 feet northwesterly from the northwesterly line of Lyvere street, the said distance being measured at right angles to Lyvere street; thence generally northwardly and always distant 100 feet westerly from and parallel with the westerly line of Lyvere street and the prolongation thereof to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Poplar street and the northerly line of West Farms road as these streets are laid out easterly from and adjoining Bear Swamp road; thence easterly along the said bisecting line to the intersection with the centre line of the first unnamed street east of Bear Swamp road; thence southwardly along the centre line of the said unnamed street to the intersection with the southerly line of West Farms road; thence easterly along the southerly line of West Farms road to the intersection with the prolongation of a line midway between Seddon street and St. Peters avenue, as these streets are laid out where they adjoin MacLAY avenue on the west; thence southeasterly along the said line midway between Seddon street and St. Peters avenue and along the prolongation of the said line to a point midway between West Farms road and MacLAY avenue; thence northwardly in a straight line to a point distant 100 feet northwesterly from the northwesterly line of MacLAY avenue and 100 feet southerly from the southerly line of West Farms road, the said distances respectively being measured at right angles to MacLAY avenue and to West Farms road; thence northwardly and always distant 100 feet northwesterly from and parallel with the northwesterly line of MacLAY avenue and the prolongation thereof to a point distant 100 feet northerly from the northerly line of West Farms road, the said distance being measured at right angles to West Farms road; thence easterly and always distant 100 feet northerly from and parallel with the northerly line of West Farms road to the intersection with a line parallel with MacLAY avenue and passing through the point of beginning; thence southwesterly along the said line parallel with MacLAY avenue to the point or place of beginning.

Third—That the abstract of said first partial and separate estimate of damage as to MacLAY avenue, together with the damage maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 3d day of September, 1912.

Fourth—That, provided there be no objections to said first partial and separate abstract as to MacLAY avenue, the first partial and separate report as to awards herein will be presented for confirmation to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part III, to be held in the County Court House, in the Borough of Manhattan, in The City of New York, on the 25th day of October, 1912, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to the foregoing first partial and separate abstract of estimate as to MacLAY avenue, the motion to confirm the report as to awards 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 Manhattan, New York, July 30, 1912.
MAX BENDIT, Chairman; WILLIAM G. DRADDY, ANDREW J. CARSON, Commissioners of Estimate. a3,20
JOEL J. SQUIERS, Clerk.

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 MORGAN AVENUE, from Stagg street to Meeker avenue, in the Eighteenth Ward, Borough of Brooklyn, The 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 and Assessment, have completed their amended and supplemental estimate and assessment 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 27th day of August, 1912, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 28th day of August, 1912, at 10.30 o'clock a. m.

Second—That the abstracts of said estimate and assessment, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and 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 2d day of September, 1912.

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.:

Commencing at a point where the centre line of the block between Vandam street and Varick street intersects the westerly bulkhead line of Newtown Creek; running thence southerly along the bulkhead line of Newtown Creek to the northerly side of Metropolitan avenue; thence along the dividing line between the Boroughs of Brooklyn and Queens to a point 100 feet east of the easterly side of Scott avenue; running thence southerly and along a line drawn parallel with Scott avenue and distant 100 feet easterly therefrom to the centre line of the block between Meserole street and Montrose avenue; running thence westerly along the centre line of the block between Meserole street and Montrose avenue to the centre line of the block between Scott avenue and Gardner street; running thence southerly along the centre line of the block between Scott avenue and Gardner street to the centre line of the block between Montrose avenue and Randolph street; thence westerly and along the centre line of the block between Montrose avenue and Randolph street to the centre line of the block between Gardner avenue and Stewart avenue; running thence southerly and along the centre line of the block between Gardner avenue and Stewart avenue to the centre line of the block between Randolph street and Johnson avenue; running thence westerly and along the centre line of the block between Randolph street and Johnson avenue to the centre line of the block between Stewart avenue and Varick street; running thence southerly and along the centre line of the block between Stewart and Varick avenues to the centre line of the block between Johnson avenue and Ingraham street; thence westerly and along the centre line of the block between Johnson avenue and Ingraham street to the centre line of the block between Varick avenue and Porter avenue; thence southerly along the centre line of the block between Varick avenue and Porter avenue to the centre line of the block between Ingraham street and Harrison place; thence westerly and along the centre line of the block between Ingraham street and Harrison place to the centre line of Bogart street; thence northerly and along the centre line of Bogart street to a point opposite the centre line of the block between Boerum street and McKibben street; thence westerly along the centre line of the block between Boerum street and McKibben street to the centre line of the block between Bogart street and White street; thence northerly along the centre line of the block between Bogart street and White street to the centre line of the block between Boerum street and Johnson avenue; thence westerly along the centre line of the block between Boerum street and Johnson avenue to a point 100 feet easterly from the easterly line of Bushwick avenue; running thence northerly parallel with Bushwick avenue and distant 100 feet easterly therefrom to the centre line of Maspeth avenue; running thence easterly along the centre line of Maspeth avenue to a point equidistant from Humboldt street and Kingsland avenue; running thence northerly and along a line drawn parallel with Humboldt street and Kingsland avenue to the middle line of Richardson street; thence along the middle line of Richardson street to a point opposite the centre line of the block between Monitor street and North Henry street; thence northerly along the centre line of the block between Monitor street and North Henry street to the middle line of the block between Van Pelt avenue and Driggs avenue; thence easterly and along the centre line of the block between Van Pelt avenue and Driggs avenue to the centre line of the block between Monitor street and Kingsland avenue; running thence northerly along the centre line of the block between Monitor street and Kingsland avenue to the centre line of the block between Driggs avenue and Nassau avenue; thence easterly along the centre line of the block between Driggs avenue and Nassau avenue to the centre line of the block between Sutton street and Morgan avenue; thence northerly and along the centre line of the block between Sutton street and Morgan avenue to the centre line of the block between Nassau avenue and Norman avenue; thence easterly along the centre line of the block between Nassau avenue and Norman avenue to the centre line of the block between Varick street and Vandam street, and thence northerly along the centre line of the block between Varick street and Vandam street to the point or place of beginning.

Fourth—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 23d day of September, 1912, at the opening of the Court on that day.

Fifth—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, August 16, 1912.
SAMUEL EVANS MAIRES, Chairman; PETER F. LYMAN, CHARLES H. WIGHT, Commissioners of Estimate and Assessment. EDWARD RIEGELMANN, Clerk. a16,27

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 BARBEY STREET, from Belmont avenue to New Lots road, in the Twenty-sixth Ward, Borough of Brooklyn, The 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, Second Department, at a Special Term thereof, to be held at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 27th day of August, 1912, 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 law.

Dated Borough of Brooklyn, New York, August 15, 1912.
 JOHN C. FAWCETT, R. W. BAINBRIDGE, SEYMOUR K. FULLER, Commissioners of Estimate; JOHN C. FAWCETT, Commissioner of Assessment.
 EDWARD RIEGELMANN, Clerk. a15,26

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 use of the public to the lands and premises required for the purpose of the widening of FLATBUSH AVENUE EXTENSION, between Concord street and Nassau street, in the Fourth Ward, Borough of Brooklyn, City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, Second Department, at a Special Term of said Court, to be held for the hearing of motions, in the County Court House, in the County of Kings, in the Borough of Brooklyn, The City of New York, on the 28th day of August, 1912, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of three Commissioners of Estimate, one of whom shall be appointed Commissioner of Assessment in the above entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title in fee by The City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the purpose of the widening of Flatbush avenue extension, between Concord street and Nassau street, in the Fourth Ward, Borough of Brooklyn, City of New York, being the following described lots, pieces or parcels of land, viz:

- Parcel "A."
- Beginning at the intersection of the south line of Nassau street as now laid out on the map of the City, with the west line of Flatbush avenue extension as legally opened:
 - Thence southerly along the west line of Flatbush avenue extension as legally opened 258.69 feet more or less to the north line of Concord street.
 - Thence westerly along the north line of Concord street 133.77 feet more or less to the west line of Lot 45 in Block 107a of the Kings County Land Map.
 - Thence northerly along the westerly line of Lot 45 138 feet more or less to the southerly line of Lots 16, 17 and 18.
 - Thence westerly along the southerly line of Lots 16, 17 and 18 49.16 feet more or less to the westerly line of Lot 16.
 - Thence northerly along the west line of Lot 16 100 feet more or less to the south line of Nassau street 80.96 feet more or less to the point of beginning.

- Parcel "B."
- Beginning at the intersection of the south line of Nassau street as now laid out on the map of the City with the east line of Flatbush avenue extension as legally opened:
 - Thence easterly along the south line of Nassau street 106.27 feet more or less to the west line of Bridge street.
 - Thence southerly along the west line of Bridge street 237.07 feet more or less to the north line of Concord street.
 - Thence westerly along the north line of Concord street 4.48 feet more or less to the east line of Flatbush avenue extension as legally opened.
 - Thence northerly along the east line of Flatbush avenue extension as legally opened 258.42 feet more or less to the point of beginning.

The Board of Estimate and Apportionment on the 7th day of March, 1912, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

Beginning at a point on the easterly line of Bridge street where it is intersected by a line midway between High street and Nassau street, and running thence eastwardly along the said line midway between High street and Nassau street to the intersection with the prolongation of a line midway between Bridge street and Duffield street; thence southwardly along the said line midway between Bridge street and Duffield street, and along the prolongation of the said line to the intersection with a line always distant 100 feet easterly from and parallel with the easterly line of Flatbush avenue, the said distance being measured at right angles to Flatbush avenue; thence southwardly along the said line parallel with Flatbush avenue and always distant 100 feet therefrom to a point distant 100 feet southwesterly from the southwesterly line of Fulton street, the said distance being measured at right angles to Fulton street; thence northwesterly and always distant 100 feet southwesterly from and parallel with the southwesterly line of Fulton street to the intersection with a line always distant 100 feet westerly from and parallel with the westerly line of Flatbush avenue, the said distance being measured at right angles to Flatbush avenue; thence northwardly along the said line parallel with Flatbush avenue and always distant 100 feet therefrom to the intersection with a line midway between Chapel street and Cathedral place; thence westwardly along the said line midway between Chapel street and Cathedral place to the intersection with the prolongation of a line midway between Jay street and Bridge street, as these streets are laid out immediately south of Cathedral place; thence northwardly along the prolongation of the said line midway between Jay street and Bridge street to the intersection with a line midway between Concord street and Chapel street; thence westwardly along the said line midway between Concord street and Chapel street to the intersection with a line midway between Pearl street and Jay street; thence northwardly along the said line midway between Pearl street and Jay street to the intersection with a line midway between High street and Nassau street; thence eastwardly along the said line midway between High street and Nassau street to the intersection with the westerly line of Jay street; thence southwardly along the westerly line of Jay street to the intersection with the northerly line of Nassau street; thence eastwardly along the northerly line of Nassau street to the intersection with the easterly line of Bridge street; thence northwardly along the easterly line of Bridge street to the point or place of beginning.

Dated New York, August 14, 1912.
 ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, New York City. a14,24

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 WARWICK STREET, from Belmont avenue to New Lots road, in the Twenty-sixth Ward, Borough of Brooklyn, The 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 at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 19th day of August, 1912, 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 law.

Dated Borough of Brooklyn, New York, August 6, 1912.
 JOHN J. BARNICLE, FRANCIS F. WILLIAMS, ROBERT E. FORD, Commissioners of Estimate; ROBERT E. FORD, Commissioner of Assessment.
 EDWARD RIEGELMANN, Clerk. a6,16

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 KENT STREET, from Oakland street to Provost street; MESEROLE AVENUE, from Jewell street to North Henry street; DIAMOND STREET, from Greenpoint avenue to Meserole avenue; MOULTRIE STREET, from Greenpoint avenue to Humboldt street, and HUMBOLDT STREET, from Greenpoint avenue to Norman avenue, in the Seventeenth Ward, Borough of Brooklyn, The 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 at the County Court House in the Borough of Brooklyn, in The City of New York, on the 21st day of August, 1912, 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 law.

Dated Borough of Brooklyn, New York, August 9, 1912.
 JOSEPH E. OWENS, H. E. FARRELL, THOS. CRADOCK HUGHES, Commissioners of Estimate; THOS. CRADOCK HUGHES, Commissioner of Assessment.
 EDWARD RIEGELMANN, Clerk. a9,20

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, to the lands, tenements and hereditaments required for the opening and extending of THIRTY-NINTH STREET, from Thirteenth avenue to West street, and FORTIETH STREET, from Fourteenth avenue to West street, in the Twenty-ninth Ward, Borough of Brooklyn, The 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 at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 19th day of August, 1912, 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 law.

Dated Borough of Brooklyn, New York, August 6, 1912.
 ARNON L. SQUIERS, FREDERICK B. MAERKLE, EDMOND HUERSTEL, Commissioners of Estimate; ARNON L. SQUIERS, Commissioner of Assessment.
 EDWARD RIEGELMANN, Clerk. a6,16

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 VAN SICLEN AVENUE, between New Lots avenue and Vandalia avenue; MILLER AVENUE, between Riverdale avenue and Vandalia avenue; BRADFORD STREET, between New Lots avenue and Vandalia avenue; WYONA STREET, between New Lots avenue and Vandalia avenue; and VERMONT STREET, between New Lots avenue and Vandalia avenue, in the Twenty-sixth Ward, Borough of Brooklyn, The 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 at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 19th day of August, 1912, 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 law.

Dated Borough of Brooklyn, New York, August 6, 1912.
 HOWARD O. WOOD, WM. J. MAHON, JOHN C. FAWCETT, Commissioners of Estimate; HOWARD O. WOOD, Commissioner of Assessment.
 EDWARD RIEGELMANN, Clerk. a6,16

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 WEST AVENUE (although not yet named by proper authority), from Hillside avenue to Jamaica avenue, in the Third Ward, Borough of Queens, in The 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 in the Municipal Building, Court House square, Long Island City, Borough of Queens, in The City of New York, on or before the 26th day of August, 1912, 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 12th day of September, 1912, at 11 o'clock a. m.

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, in the Municipal Building, Court House square, Long Island City, in the Borough of Queens, in said City, there to remain until the 3d day of September, 1912.

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 Queens, 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 Hillside avenue at a point 129.36 feet north of the north side of West avenue; running thence easterly and parallel with West avenue to the southwesterly line of Jamaica avenue; thence along the southwesterly and westerly lines of Jamaica avenue to a point where a line drawn parallel and 129.36 feet south of the southerly line of West avenue would intersect said westerly line of Jamaica avenue; thence westerly along a line parallel to West avenue to the intersection of the easterly line of Hillside avenue produced southerly; thence northerly along the easterly line of Hillside avenue to the production of same, 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 25th day of October, 1912, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to any 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, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 638 of the Laws of 1906.

Dated Borough of Manhattan, New York, August 1, 1912.
 JOHN W. WEED, FRANK E. ANDREWS, Commissioners.
 WALTER C. SHEPPARD, Clerk. a3,20

NOTICE TO BIDDERS AT SALES OF OLD BUILDINGS, ETC.

TERMS AND CONDITIONS UNDER WHICH BUILDINGS, ETC., WILL BE SOLD FOR REMOVAL FROM CITY PROPERTY.

THE BUILDINGS AND APPURTENANCES thereto will be sold to the highest bidder, who must pay cash or 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, 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 in

the Borough in which the buildings are situated, 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 buildings.

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 cost 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 and 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.

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 stated person be so interested, it shall distinctly state that fact; and 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 or corporate stock or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement, to the amount of not less than three nor more than 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.