THE CITY RECORD.

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THE CITY RECORD.

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WILLIAM J. GAYNOR, MAYOR.

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DAVID FERGUSON, SUPERVISOR.

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BOARD OF ESTIMATE AND APPORTIONMENT

PUBLIC HEARING ON PROPOSED RAPID TRANSIT ROUTE.

Public notice is hereby given that at the meeting of the Board of Estimate and Apportionment held April 11, 1912, a communication was received from the Public Service Commission for the First District transmitting resolutions adopted by said Commission March 28, 1912, adopting route and general plan of construction for an additional rapid transit railway in the Boroughs of Manhattan and Brooklyn known as Whitehall Street-East River-Montague Street Route and requesting the approval and consent of this Board thereto.

Thereupon, by resolution duly adopted, April 18, 1912, was fixed as the date for consideration, when such consideration was continued until April 25, 1912.

Dated New York April 18, 1912. JOSEPH HAAG, Secretary.

PUBLIC SERVICE COMMISSION—FIRST DISTRICT.

No. 154 NASSAU STREET, NEW YORK CITY.

Calendar for Week Commencing April 22, 1912.

Wednesday, April 24, 1912—2.30 p. m.—Room 305—Case No. 1395—New York Edison Company, George Stadtlander et al., complainants. 2.30 p. m.—Room 305—Case No. 1492—New York Edison Company, Julius Ewoldt et al., complainants—"Rates for electricity in Manhattan and The Bronx"—Commissioner Maltbie. 2.30 p. m.—Room 310—Case No. 1272—Staten Island Railway Company—"Rehearing as to alteration of Crooks Crossing on the Amboy Road at Giffords"—Commissioner Eustis.

Thursday, April 25, 1912—10.30 a. m.—Room 305—Case No. 1438—Brooklyn Heights Railroad Company et al.—"Additional cars and service"—Commissioner Williams. 2.30 p. m.—Room 305—Case No. 1369—Street Railroad Corporations—"Rehearing as to brakes on surface cars"—Commissioner Eustis. 3.00 p. m.—Room 305—Case No. 1495—Interborough Rapid Transit Company—"Disposition of refuse at Bronx Park station"—Commissioner Eustis.

Friday, April 26, 1912—2.30 p. m.—Room 310—Case No. 1480—Gas Corporations in Manhattan—"Gas pressure regulations"—Commissioner Maltbie. 3.00 p. m.—Room 305—Rapid Transit Railroad, Manhattan-Brooklyn—"Line of Eastern District Route by tunnel under East River, from 14th street to East New York"—Whole Commission.

Meetings of Committee of the Whole held on Tuesday, Wednesday, Thursday and Friday, 10.30 a. m., in the Committee Room.

Regular meetings of the Commission held on Tuesday and Friday at 12 noon—Room 310.

An adjourned meeting of the Commission will be held on Monday, April 22, at 12 noon, Room 310.

Municipal Civil Service Commission.

Eligible List for School Farm Attendant (Male and Female), Department of Parks, Manhattan and Richmond.

1, Roth, Jane C., 218 Westervelt ave., New Brighton, S. I., 94; 2, Brady, Hugh P., 530 W. 122d st., 92.40; 3, Byrne, Edna R., 467 King ave., City Island, The Bronx, 92.20; 4, Williams, Marie E., 524 W. 122d st., 90.40; 5, Brinkerhoff, Janet W., 84 Edgecombe ave., 90.20; 6, Cahill, Grace W., 167 W. 145th st., 90.20; 7, Davies, Sadie C., 132 W. 20th st., 89.60; 8, Streich, Minna R., 151 2d ave., 89.60; 9, Mahon, Helena, 41 2d place, Brooklyn, 88.80; 10, Giblin, Kate J., 1048 Boston road, The Bronx, 88.80; 11, Miller, Edward J., 179a Nassau ave., Brooklyn, 88; 12, Schoen, Louis, 296 S. 1st st., Brooklyn, 87.40.

13, Engel, Julia L., 251 E. 238th st., 86.80; 14, Schwartz, Joseph D., 60 Avenue C, 86.60; 15, Wilde, Olive H., 4337 Martha ave., The Bronx, 86; 16, Edes, Kathria, 508 W. 135th st., 86; 17, Parsons, Maude, 29 W. 56th st., 85.60; 18, Brown, Grace, 977 3d ave., 85; 19, Horan, Catherine S., 2013 Anthony ave., The Bronx, 84.80; 20, Shonbrun, Irving, 1589 Madison ave., 84.60; 21, McCaffrey, Hannah M., 1930 Vyse ave., The Bronx, 84.20; 22, Brennan, Joseph F., 244 Westervelt ave., New Brighton, S. I., 84; 23, Breiling, Ralph, 1081 Madison st., Brooklyn, 83.80; 24, Solan, Cyril J., Carpenter ave., Hollis, L. I., 83.60.

25, Wright, Carrie, 217 E. 27th st., 83.60; 26, Hatch, Robert C., 324 E. 236th st., 82.80; 27, Titus, Richard, 1831 Crotona ave., The Bronx, 82.80; 28, Glock, Walter R., 533 8th ave., L. I. C., 82.60; 29, Routh, Joseph P., 576 W. 161st st., 82.20; 30, De Celles, Cecilia E., 126 W. 90th st., 82; 31, Tenney, John A., 163 Lee ave., Brooklyn, 81.80; 32, Meyerheim, Aubrey, 135 W. 138th st., 81.80; 33, Brady, Sheldon J., 530 W. 122d st., 81.60; 34, Munckwitz, Winifred M., 125 W. 129th st., 80.60; 35, Hickey, Francis J., 573 E. 2d st., Brooklyn, 80.40; 36, McCormack, Francis J., 500 W. 27th st., 80.20; 37, Nitschke, Alvie, 225 E. 116th st., 80.20.

38, McCauley, Joseph J., 303 W. 52d st., 80; 39, Colemike, Jacob, 1486 Brook ave., The Bronx, 79.80; 40, Higgins, Frank W., 3 Erasmus st., Brooklyn, 79.60; 41, Greene, Marie E., 2249 Broadway, 79.40; 42, Biele, Edward, 3397 Fort Independence st., The Bronx, 79; 43, Macaulay, Agnes F., Allen st. and Shore ave., Jamaica, 78.80; 44, Conlan, Elizabeth C., 106 3d st., Brooklyn, 78.80; 45, Bartholomae, William A., 212th st. and Broadway, 77.80; 46, Healy, Mary C., 613 Vanderbilt ave., Brooklyn, 77.60; 47, Munckwitz, Henrietta, 125 W. 129th st., 77.60; 48, Gates, Clara I., 75 Glean st., Elmhurst, L. I., 77.60; 49, LeGallez, Isabella, 53 W. 104th st., 77.20; 50, Keogh, Grace M., 295 6th ave., Brooklyn, 77.

51, Bayer, Harry J., 61 Delancey st., 76.80; 52, Carroll, Catherine A., 530 61st st., Brooklyn, 76.80; 53, O'Meara, Anna G., 311 E. 124th st., 76.60; 54, Curran, William J., 791 Park ave., 76; 55, O'Toole, Margaret, 810 Elsmere place, The Bronx, 76; 56, Allan, Douglas, R. F. D., New City, Rockland County, N. Y., 75.80; 57, O'Toole, Jane F. W., 810 Elsmere place, The Bronx, 75.80; 58, Soons, George S., 669 E. 233d st., 75.40; 59, Aprill, Gertrude, 1507 Eastern parkway, Brooklyn, 75.20; 60, Hazrick, Mary F., 554 58th st., Brooklyn, 75.20.

61, LeBlanc, Mary E. V., 263 E. 23d st., Brooklyn, 74; 62, Roche, Nellie, 412 Clinton st., Brooklyn, 74; 63, Barcal, Harry W. J., 266 E. 25th st., Brooklyn, 73.80; 64, Ochse, Blanche C., 251 W. 112th st., 73.80; 65, von Sobotker, Clarence, 559 W. 164th st., 73.60; 66, Draney, Peter A., 36 Hudson terrace, North Tarrytown, N. Y., 73.60; 67, Nueger, Adele, 68 Buchanan place, The Bronx, 73.40; 68, Wagler, Arthur C., 835 Sutter ave., Brooklyn, 73.40; 69, Keiber, Wm. C., 729 Jewett ave., Westerleigh, S. I., 73.40; 70, Gibbons, Mary M., 76 Amity st., Brooklyn, 70.80; 71, Gernon, Eleanor, 411 Albemarle road, Brooklyn, 70.

Court Stenographer, Fourth Grade, Richmond Borough.

1, Victory, Jerome (N. Q.), 105 Stuyvesant place, New Brighton, S. I., 89.60; 2, Keyes, Harry C., 830 Bay st., Stapleton, 1.60; 3, Kelp, Sidney R., 15 Bertha place, Stapleton, 83; 4, Peavy, Paul W., 93 3d ave., New Brighton, 76; 5, Riley, Charles A., 333 Livermore ave., West Brighton, 72.40.

DEPARTMENT OF FINANCE.

Abstract of Transactions of the Department of Finance for the Week Ending March 30, 1912.

Deposited in the City Treasury.

To the Credit of the City Treasury	$4,391,852 93
To the credit of the Sinking Funds	124,370 22
Total	$4,516,223 15

Warrants Registered for Payment.

Appropriation Accounts, "A" Warrants	$6,312,105 94
Special Revenue Bond Fund Accounts, "B" Warrants	120,751 55
Corporate Stock Fund Accounts, "C" Warrants	1,357,852 99
Special and Trust Fund Accounts, "D" Warrants	3,556,522 09
Total	$11,347,232 57

Notes, Bills and Bonds Issued.

Notes of The City of New York	$1,500,000 00
Revenue Bills	494,643 84
Revenue Bonds	1,500,000 00
Total	$3,494,643 84

Bonds Redeemed.

Bonds of former corporations now included in The City of New York	$100,000 00

Suits, Court Orders, Judgments, etc.

Supreme, New York Co., Di Menna & Depaolo vs. City of New York., Londino & Gallo et al.; copy of summons and complaint. Arnold Lichtig, attorney.

Supreme, New York Co., Albert Bersin, $1,043.55; transcript of judgment. Gettner, Simon & Asher, attorneys.

Supreme, New York Co., People of State of New York vs. Oscar Meislin, principal and surety, $100; certified copies of orders (2), directing refund $50 each in two actions. Hilly & Geoghan, attorneys.

Supreme, New York Co., Baker ave., The Bronx; certified copy of order entered March 18, 1912, directing payment of award to Magdalena Lieb, executrix, pp. 16, 19, 20, 21, 22. D. S. Ritterband, attorney.

Supreme, Queens Co., Mt. Olivet ave., Queens; certified copy of order entered March 22, 1912, directing payment of award to Mary Suhr, p. 3. S. R. Tiffany, attorney.

Supreme, Queens Co., Jamaica ave., Queens; certified copy of order entered March 25, 1912, directing payment of award to James Deegan, pp. 49, 49aa and 50. John R. McMullen, attorney.

Supreme, Kings Co., Roland D. Armstrong vs. Esther Berkowitz et al.; copy of summons and complaint and order. Andrew F. Van Thun, Jr., attorney.

Supreme, Kings Co., James Bliss Coombs and another, executors, vs. Temple Realty Co. et al.; copy of supplemental summons and complaint. Andrew F. Van Thun, Jr., attorney.

Supreme, New York Co., Herman E. Lory & Co. vs. City of New York, Willis & Marvin Co. et al.; copy of summons and complaint. Harry D. Nims, attorney.

Supreme, Richmond Co, New York Market Gardens Association, $6,420.90, $11.89, $129.97; transcripts of judgments (3). Holt, Warner & Gaillard, attorneys.

Supreme, Queens Co., Baltic st., Queens; certified copy of order entered March 23, 1912, directing payment of award to Andrew Kaiser and another, pp. 25, 28 and 30. Frank F. Adel, attorney.

Supreme, Queens Co., Troutman st., Queens; certified copy of order entered March 25, 1912, directing payment of award to Margaretha Geis, p. 22a. James F. Barry, attorney.

Supreme, New York Co., Thos. H. Watkins, as receiver of Pennsylvania Coal & Coke Co., vs. Glyndon Contracting Co. et al; certified copy of order discontinuing action and canceling bond. Louis F. Doyle, attorney.

Supreme, New York Co., John Lonergan vs. City of New York; certified copy of order substituting John Barton, administrator, as plaintiff. Frank E. Hipple, attorney.

Supreme, Kings Co., Manhattan Bridge, Brooklyn, copy of petition and notice of motion for order directing payment of award to Elizabeth G. De Lany Hartsock et al., p. 48. Henry T. Randall, attorney.

Supreme, New York Co., Hanover Contracting Co. vs. City of New York; copy of summons and complaint. Kellogg & Rose, attorneys.

Supreme, Queens Co., Blackwell st., Queens; certified copy of order entered March 26, 1912, directing payment of award to Michael W. Collins, p. 13w. Chas. F. O'Donnell, attorney.

County, Kings Co., Isabel Eastmond vs. Margaretha Moeller et al.; copy of summons and complaint. J. W. Greenwood, attorney.

Municipal, Brooklyn, 1st District, Henry Blau, $546.74; transcript of judgment. John T. Loew, attorney.

Supreme, New York Co., James G. King vs. Archibald C. Gill et al.; copy of amended summons and complaint. Harold Swain, attorney.

(Continued on Page 3470.)

BOARD OF ESTIMATE AND APPORTIONMENT

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Thursday, April 18, 1912.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; Edmund D. Fisher, Deputy and Acting Comptroller; Ardolph L. Kline, Acting President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, 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 Public Improvements Calendar, the following Financial and Franchise Matters were considered:

The minutes (Financial and Franchise Matters) of the meeting held April 11, 1912, were approved as printed in the CITY RECORD April 18, 1912.

FRANCHISE MATTERS.

RAPID TRANSIT RAILWAY—WHITEHALL STREET-EAST RIVER-MONTAGUE STREET ROUTE.

The consideration was opened of the communication from the Public Service Commission for the First District transmitting resolutions adopted by said Commission March 28, 1912, determining and establishing route and general plans of construction for an additional rapid transit railway beginning at a point in the Borough of Manhattan, under Morris street, at or near the intersection of Greenwich Street, Trinity Place and Morris Street, where a connection can be made with the proposed subway on Trinity Place or the one on Greenwich Street or both, and extending under private property to Broadway, to Whitehall Street, to and under the East River to Montague Street, Borough of Brooklyn, and under and along Montague Street to Court Street, there connecting with railways which are now validated, and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of April 11, 1912, when, by resolution adopted, this day was fixed as the date for consideration.

No one appeared in opposition or in favor.

At the request of the President of the Borough of Manhattan, the consideration was continued until April 25, 1912.

RAPID TRANSIT RAILWAYS—STEINWAY TUNNEL-TIMES SQUARE EXTENSION-SEVENTH AVENUE EXTENSION AND VARICK STREET ROUTE.

The consideration was opened of the communication from the Public Service Commission for the First District transmitting resolutions adopted by said Commission March 25, 1912, determining and establishing route and general plans of construction for additional rapid transit railways in the Borough of Manhattan as follows:

(a) Steinway Tunnel-Times Square Extension. Beginning at a point under 42d street, near 5th avenue, at the westerly terminal of the Steinway Tunnel Route and extending westerly under 42d Street to the easterly side of 8th Avenue.

(b) Seventh Avenue Extension and Varick Street Route. Beginning at a point under 7th Avenue at or near West 12th street, where a connection can be made with the Seventh and Eighth Avenue Route, thence extending southerly under 7th avenue and the proposed extension of said street and under Varick street, as proposed to be widened and extended, to West Broadway and Leonard street, where a connection can also be made with the Seventh and Eighth Avenue Route; and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of April 11, 1912, when, by resolution adopted, this day was fixed as the date for consideration.

No one appeared in opposition or in favor and the Chair declared the consideration concluded.

The following was offered:

Whereas, The Public Service Commission for the First District, constituted pursuant to the provisions of chapter 429 of the Laws of 1907, has duly determined upon a route or routes and general plan of construction of a rapid transit railway for the conveyance of persons and property, to be established in The City of New York in addition to the already existing lines and did by resolution of March 25, 1912, adopt such route or routes and general plan, being more particularly known as "Steinway Tunnel-Times Square Extension," and

Whereas, Thereafter said Public Service Commission for the First District did transmit to the Board of Estimate and Apportionment of The City of New York a copy of the plans and conclusions for said route or routes as adopted, which plans and conclusions were received by said Board of Estimate and Apportionment on the 11th day of April, 1912, at a meeting of the said Board of Estimate and Apportionment duly held on said day; and

Whereas, Said Board of Estimate and Apportionment, by resolution duly adopted at said meeting, did appoint a day not less than one week nor more than ten days after the receipt thereof for the consideration of such plans and conclusions, to wit, the 18th day of April, 1912, at 10.30 o'clock a. m., when said consideration was concluded; and

Whereas, The plans and conclusions are fully set forth in the resolutions of said Public Service Commission for the First District, adopted March 25, 1912, and which resolutions are as follows:

RESOLUTIONS ADOPTED BY THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, MARCH 25, 1912, STEINWAY TUNNEL-TIMES SQUARE EXTENSION.

Whereas, The Public Service Commission for the First District has determined that a rapid transit railroad for the conveyance and transportation of persons and property, in addition to those already existing, authorized or proposed, is necessary for the interest of the public and of The City of New York and should be established therein as hereinafter provided; and

Whereas, This Commission has duly made the inquest and investigation necessary or proper in the premises and all such inquests and investigations as are necessary or proper for such determination,

Now, Therefore, this Commission does hereby adopt the following route for an additional rapid transit railroad in The City of New York and does hereby determine and establish the said additional route thereof as follows, and does hereby adopt a general plan of construction of the said railroad, the route of which is herein provided, and does in such general plan hereby adopted show the general mode of operation and such details as to manner of construction as may be necessary to show the extent to which any street, avenue or other public place is to be encroached upon and the property abutting thereon affected.

This Commission in adopting the said route and general plan expressly reserves all the powers in relation to the construction of the said route which are conferred upon it by the Rapid Transit Act.

ROUTE.

A route lying wholly within the Borough of Manhattan, the centre line of which shall begin at a point under 42d street about three hundred (300) feet west of the westerly side of Madison avenue, where a connection can conveniently be made with the Steinway Tunnel Route heretofore adopted by this Commission, and thence running westerly under 42d street to the easterly side of 8th avenue.

GENERAL PLAN OF CONSTRUCTION.

The general plan of construction hereby adopted for the foregoing route is as follows:

For the entire route there shall be two (2) tracks, except that at stations and station approaches there may be three (3) tracks.

All the tracks shall be placed in subway or tunnel substantially parallel with each other and on substantially the same level.

The tracks along that portion of 42d street, extending from the easterly terminus of the route to a point between 5th and 6th avenues, where the proposed Hudson and Manhattan Railroad is to be constructed, shall be placed toward the northerly side of 42d street. For the remainder of the route the tracks shall be placed either under the central part of 42d street or toward the northerly side of 42d street so far as may be practicable, except that at stations and station approaches, the tracks or any one or more of them may be diverted as far as necessary to one side or the other of 42d street.

The tunnels shall be at such a depth below the surface of 42d street as may be necessary to pass under the rapid transit railroad now constructed along 42d street, and to permit of the construction of other rapid transit railroads over and across the said tunnels at Broadway, 7th avenue and other intersecting avenues.

The tunnels above described shall in no case be more than sixteen (16) feet in height in the clear except where special or local necessities or conditions shall otherwise require.

The roof of the said tunnels shall be of iron or steel with brick or concrete arches, supported by iron or steel or masonry columns or resting upon masonry walls; or the roof may be a masonry structure; or the whole of the lining may be of metal.

Adjacent tracks may be connected by necessary and suitable switches and connections, and additional track for siding accommodations may be constructed not to exceed in length one-quarter of a mile for each mile of roadway.

The tracks may at any point of the said route be placed in the same tunnel, or there may be separate tunnels for one or more tracks, as shall be most convenient.

The tracks shall be of standard gauge, that is to say, of the width of four (4) feet and eight and one-half (8½) inches between the gauge lines.

There shall be a width in the tunnels not exceeding fifteen (15) feet for each track in addition to the thickness of the supporting walls, unless it shall be necessary to tunnel by the shield method, in which event the tracks may be placed in tubes not exceeding twenty (20) feet in outside diameter, except that at stations, station approaches, switches, turnouts, curves and crossovers, the width or diameter may be increased.

There may be a station with station entrances at or near Broadway and 7th avenue. There may also be another station with station entrances at such location as this Commission may determine. Such stations and station entrances shall be built under the streets or through private property to be acquired for the purpose or both under streets and through private property as aforesaid. The streets under which such stations or station entrances may be built may include cross streets, but no part of any cross street shall be used for a station or station entrance at a distance greater than seventy-five (75) feet from the exterior line or side of 42d street. The stations may, where necessary, west of the point between 5th and 6th avenues where the proposed Hudson and Manhattan Railroad enters 42d street, include the entire width of 42d street between house lines.

Pipes, wires, sewers and other subsurface structures at any part of the said route shall be removed or disturbed only when necessary for the construction or operation of the railroad above referred to, and if removed or disturbed shall be placed under the several streets in such manner and in such location that the use and service thereof shall not be impaired. Such pipes, wires, sewers and other subsurface structures shall be left or shall be so arranged as to give free access for their repair or alteration, or for the placing with them, so far as there may be space, of new pipes, wires, sewers and other like structures, and for making connections between the same and abutting buildings at any time.

The manner of construction between the easterly terminus of the route and the easterly side of Broadway shall be by tunneling. The manner of construction between the easterly side of Broadway and the westerly terminus of the route shall be by tunneling or excavation under cover.

In parks, parkways and public places under the jurisdiction of the Department of Parks, all trees injured or destroyed in the course of construction shall, so far as possible, be replaced under the direction and to the satisfaction of the said Department.

MODE OF OPERATION.

The general mode of operation of the route above described shall be by electricity or some other power not requiring combustion within the tunnels, and the motors or other means of transmitting power shall be capable of moving conveyances at a speed of not less than forty (40) miles per hour for long distances, exclusive of stops.

DEFINITIONS.

The word "street" wherever used herein shall include an avenue or public place.

The words "Rapid Transit Act" wherever used herein shall be taken and held to mean chapter 4 of the Laws of 1891, entitled "An Act to provide for rapid transit railways in cities of over one million inhabitants," as amended by chapter 752 of the Laws of 1894, and other acts of the Legislature.

MAP OR DRAWING.

It Is Further Resolved, That the map or drawing entitled "State of New York Public Service Commission for the First District Engineering Department Routes and General Plan, Route No. 35, Steinway Tunnel-Times Square Extension" is hereby adopted as showing the foregoing route and general plan for convenience merely and that said map or drawing is not to be deemed a part of the description of the route or a part of the general plan for any purpose whatever.

—now therefore be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, by a majority vote according to the number of votes by law pertaining to each member of the board, hereby approves such plans and conclusions and consents to the construction of a railway or railways in accordance therewith.

Which was adopted by the following vote:

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

—

The following was offered:

Whereas, The Public Service Commission for the First District, constituted, pursuant to the provisions of chapter 429 of the Laws of 1907, has duly determined upon a route or routes and general plan of construction of a rapid transit railway for the conveyance of persons and property to be established in The City of New York in addition to the already existing lines, and did by resolution of March 25, 1912, adopt such route or routes and general plan, being more particularly known as "Seventh Avenue Extension and Varick Street Route," and

Whereas, Thereafter said Public Service Commission for the First District did transmit to the Board of Estimate and Apportionment of The City of New York a copy of the plans and conclusions for said route or routes as adopted, which plans and conclusions were received by said Board of Estimate and Apportionment on the 11th day of April, 1912, at a meeting of the said Board of Estimate and Apportionment duly held on said day; and

Whereas, Said Board of Estimate and Apportionment, by resolution duly adopted at said meeting, did appoint a day not less than one week nor more than ten days after the receipt thereof for the consideration of such plans and conclusions, to wit, the 18th day of April, 1912, at 10.30 o'clock a. m., when said consideration was concluded; and

Whereas, The plans and conclusions are fully set forth in the resolutions of said Public Service Commission for the First District, adopted March 25, 1912, and which resolutions are as follows:

RESOLUTION ADOPTED BY THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, MARCH 25, 1912, SEVENTH AVENUE EXTENSION AND VARICK STREET ROUTE.

Whereas, The Public Service Commission for the First District has determined that a rapid transit railroad for the conveyance and transportation of persons and property, in addition to those already existing, authorized or proposed, is necessary for the interest of the public and of The City of New York and should be established therein as hereinafter provided; and

Whereas, This Commission has duly made the inquest and investigation necessary or proper in the premises, and all such inquests and investigations as are necessary or proper for such determination.

Now, therefore, this Commission does hereby adopt the following route for an additional rapid transit railroad in The City of New York, and does hereby determine and establish the said additional route thereof as follows, and does hereby adopt a general plan of construction of the said railroad,

the route of which is herein provided, and does in such general plan hereby adopted show the general mode of operation and such details as to manner of construction as may be necessary to show the extent to which any street, avenue or other public place is to be encroached upon and the property abutting thereon affected.

This Commission, in adopting the said route and general plan, expressly reserves all the powers in relation to the construction of the said route which are conferred upon it by the Rapid Transit Act.

ROUTE.

A route lying wholly within the Borough of Manhattan, the centre line of which shall begin at a point in 7th avenue at or near West 12th street, where a connection can conveniently be made with Section 4-B of the Seventh and Eighth Avenue Route as heretofore adopted and approved; thence running southerly under 7th avenue and crossing under West 11th street and Greenwich avenue to a point in private property on the south side of West 11th street and Greenwich avenue within the lines of the proposed extension of 7th avenue as laid down on the map or plan hereinafter mentioned and described; thence continuing still southerly, within the lines of the proposed extension of 7th avenue as laid down on the said map or plan, under private property, Perry street, private property, Waverly place, private property, Charles street, private property, West 10th street, private property, Christopher and West 4th streets, private property, Grove street, private property, Barrow and Bleecker streets, private property, Commerce street, private property, Morton street, private property, Bedford street, private property, Leroy street and private property, to Carmine street; thence continuing still southerly, within the lines of Varick street as proposed to be widened as shown upon said map or plan hereinafter mentioned and described, to Franklin street, and thence continuing still southerly under private property, within the lines of the proposed extension of Varick street as laid down on the said map or plan hereinafter mentioned and described, to West Broadway, and continuing under West Broadway to Leonard street, where a connection can conveniently be made with Section 4-C of the Seventh and Eighth Avenue Route as heretofore adopted and approved.

The portion of the said route, the centre line of which is above described, beginning at the south side of West 11th street and the south side of Greenwich avenue and thence extending southerly to Carmine street, shall pass through and under what is now private property and under and across the various intersecting cross streets; and the portion of the said route beginning at Carmine street and thence extending southerly to West Broadway shall pass under and along Varick street as the same now exists and through and under what is now private property on the east side of Varick street and under and across the various intersecting cross streets and through and under what is now private property on the west side of West Broadway between Franklin street and Leonard street.

The said map or plan above mentioned showing the proposed extension of 7th avenue and the proposed widening and extension of Varick street bears the signature of the President of the Borough of Manhattan and is dated December 26, 1911, and is referred to in two certain resolutions, adopted by the Board of Estimate and Apportionment of The City of New York on February 8, 1912, and March 21, 1912, respectively, relative to a change in the map or plan of The City of New York so as to establish the lines and grade of the southerly extension of 7th avenue from Greenwich avenue to Carmine street, and to establish the lines and grades of the widening of Varick street from Carmine street to Franklin street, and to establish the lines and grades of the extension of Varick street from Franklin street to West Broadway, in the Borough of Manhattan.

GENERAL PLAN OF CONSTRUCTION.

The general plan of construction hereby adopted for the foregoing route is as follows:

The words "7th avenue," wherever hereinafter used, mean 7th avenue, as it now exists and as it is proposed to be extended in accordance with said map or plan hereinbefore mentioned and described, from the northerly terminus of the route at or near West 12th street to Carmine street.

The words "Varick street," wherever hereinafter used, mean Varick street, as the same is to be widened and extended as indicated on said map or plan hereinbefore mentioned and described, from Carmine street to West Broadway.

For the entire route there shall be four (4) tracks.

All the tracks shall be placed in subway or tunnel substantially parallel with each other and on substantially the same level, except that wherever required by special necessities of surface or subsurface structures or other special or local necessities, and for the purpose of avoiding grade crossings, any one or more of the tracks may be depressed below the level of the other track or tracks so far as may be necessary.

The tracks shall be placed in general under the central part of 7th avenue and Varick street so far as may be practicable, except that wherever required by special or local necessities and at curves and at stations and station approaches, the tracks or any one or more of them may be diverted as far as necessary to one side or the other of 7th avenue and Varick street or either of them. Any part of 7th avenue and Varick street may be occupied so far as the purposes of this general plan require.

The roof of the tunnels shall be as near the surface as grades and street conditions will conveniently permit, except that at and near Canal street, the tunnels may, if necessary, be depressed to a depth sufficient to allow another tunnel or subway to be constructed in Canal street over and across them.

The roof of the said tunnels shall be of iron or steel with brick or concrete arches, supported by iron or steel or masonry columns or resting upon masonry walls; or the roof may be a masonry structure; or the whole of the lining may be of metal.

The tunnels above described shall in no case be more than sixteen (16) feet in height in the clear, except where special or local necessities or conditions shall otherwise require.

There shall be a width in the said tunnels not exceeding fifteen (15) feet for each track, in addition to the thickness of the supporting walls, except that at stations, station approaches, switches, turnouts, curves and crossovers, the width may be increased.

The tracks may at any point of the said route be placed in the same tunnel, or there may be separate tunnels for one or more tracks, as shall be most convenient.

Adjacent tracks may be connected by necessary and suitable switches and connections, and additional track for siding accommodations may be constructed not to exceed in length one-quarter of a mile for each mile of roadway.

The tracks shall be of standard gauge, that is to say, of the width of four (4) feet and eight and one-half (8½) inches between the gauge lines.

Stations and station entrances shall be built under existing streets or what is now private property or both within the lines of 7th avenue or Varick street, or through or under private property to be acquired for the purpose outside the lines of 7th avenue or Varick street, or both under existing streets or what is now private property or both within the lines of 7th avenue or Varick street and through or under private property outside the lines of 7th avenue or Varick street, as aforesaid. The station entrances shall be at or near the intersections of 7th avenue and Varick street with other streets, except that wherever required for efficient operation of the railroad or wherever required by special or local conditions, such station entrances shall be either at or near the intersection of 7th avenue or Varick street with other streets or between streets crossing 7th avenue or Varick street or both. Stations and station entrances may be built under streets crossing 7th avenue or Varick street, but no part of any such cross street shall be used for a station or station entrance at a distance greater than seventy-five (75) feet from the exterior line or side of 7th avenue or Varick street.

Wherever along any part of the route above described, it shall be necessary for the proper maintenance or accommodation of pipes, wires, sewers or other subsurface structures, the removal, construction or reconstruction of which shall be rendered necessary by the construction of the railroad, any tunnel or subway may be enlarged on either or both sides by an additional width not to exceed fifteen (15) feet on each side of the route. All or any pipes, wires, sewers or other subsurface structures may be placed in suitable galleries to be constructed within the additional widths hereinbefore permitted. At each cross street where accommodation for pipes, wires, sewers and other subsurface structures shall be thus provided within the tunnels or subways, such tunnels or subways, in order to provide convenient access to the same, may have, within the limit of the sides or exterior lines of such cross streets or such lines produced, an additional width on each side of the route not to exceed fifteen (15) feet.

Pipes, wires, sewers, and other subsurface structures at any part of the said route shall be removed or disturbed only when necessary for the construction or operation of the railroad above referred to, and if removed or disturbed shall be placed under the several streets in such manner and in such location that the use and service thereof shall not be impaired. Such pipes, wires, sewers and other subsurface structures shall be left or shall be so arranged as to give free access for their repair or alteration, or for the placing with them, so far as there may be space, of new pipes, wires, sewers and other like structures, and for making connections between the same and abutting buildings at any time.

The manner of construction shall be by tunneling or excavation under cover, except that for the portion of the route extending from the south side of West 11th street and Greenwich avenue to Carmine street and at other places where this Commission may expressly permit, the manner of construction may be by open excavation.

In parks, parkways and public places under the jurisdiction of the Department of Parks, all trees injured or destroyed in the course of construction shall, so far as possible, be replaced under the direction and to the satisfaction of the said Department.

MODE OF OPERATION.

The general mode of operation of the route above described shall be by electricity or some other power not requiring combustion within the tunnels, and the motors or other means of transmitting power shall be capable of moving conveyances at a speed of not less than forty (40) miles per hour for long distances, exclusive of stops.

DEFINITIONS.

The word "street," wherever used herein, shall include an avenue or public place.

The words "Rapid Transit Act," wherever used herein, shall be taken and held to mean chapter 4 of the Laws of 1891, entitled "An Act to provide for rapid transit railways in cities of over one million inhabitants," as amended by chapter 752 of the Laws of 1894, and other Acts of the Legislature.

MAP OR DRAWING.

It Is Further Resolved, That the map or drawing entitled "State of New York Public Service Commission for the First District, Engineering Department, Routes and General Plan, Route No. 38, Seventh Avenue Extension and Varick Street, Borough of Manhattan," be and it hereby is adopted as showing the foregoing route and general plan for conveniece merely, and that said map or drawing is not to be deemed a part of the description of the route or a part of the general plan for any purpose whatever.

—now therefore be it

Resolved, That the Board of Estimate and Apportionment of The City of New York, by a majority vote according to the number of votes by law pertaining to each member of the Board, hereby approves such plans and conclusions and consents to to the construction of a railway or railways in accordance therewith.

Which was adopted by the following vote:

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

RAPID TRANSIT RAILWAYS.

A communication was received from the City Club of New York calling attention to its previous communication presented to the Board at the meeting of April 11, 1912, submitting reports of its Committee on transit, and stating it believed the memoranda submitted deserved the serious consideration of the Committee on pending transit proposals.

Which was referred to the Committee on pending transit proposals.

CREW LEVICK COMPANY—LONG ISLAND 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 April 9, 1912, directing a hearing on April 19, 1912, upon the application of the Crew Levick Company for an order directing the construction by the Long Island Railroad Company of a sidetrack at Atlantic Avenue and Montauk Avenue, Borough of Brooklyn.

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

FINANCIAL MATTERS.

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

From the President of the Borough of Richmond, enclosing, for the consideration of the Committee on Salaries and Grades, petition of the Drivers in the Bureau of Street Cleaning, Borough of Richmond, requesting an increase to equalize their compensation with that paid in the Boroughs of Manhattan and Brooklyn;

From the Secretary of the Park Board requesting the establishment of the following grades of positions:

Topographical Draftsman, at $1,800 per annum, for two incumbents.

Stenographer, at $1,200 per annum;

From the Commissioner of Accounts requesting the establishment in the Standard Testing Laboratory, under the jurisdiction of said Commissioner, of the following grades of positions:

1 Fuel Engineering Chemist, at $1,800 per annum.
1 Fuel Engineering Chemist, at $1,500 per annum.
2 Junior Engineering Chemists, at $1,200 each per annum.
1 Stenographer and Typewriter, at $1,200 per annum.
1 Cleaner (male), at $720 per annum.

From the Fire Commissioner requesting the establishment of the grade of position of Janitor, at $1,500 per annum, for one incumbent;

From the Secretary of the Board of Education transmitting certified copy of resolution adopted by said Board, relative to fixing the compensation of Janitors of various school buildings in the Boroughs of Manhattan, The Bronx and Queens;

From the District Attorney of Richmond County renewing request for the establishment of the position of Chief Clerk, at $1,800 per annum;

From the Commissioner of Bridges recommending the retirement of William Read, Stationary Engineman in the Department of Bridges;

From the President of the Borough of The Bronx recommending the retirement of Cowper J. Thorburn, a Transitman in the Bureau of Sewers, Borough of The Bronx, on an annuity of $900.

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 communication from the President of the Borough of The Bronx requesting that the resolution adopted March 7, 1912, approving of the transfer of $4,000 from account No. 1832, within the appropriation made to the Department of Water Supply, Gas and Electricity, for the year 1912, to accounts Nos. 1886 and 1891, within the appropriation made to the President of The Bronx for the year 1912, be amended by providing that said amount be transferred to accounts within the appropriation made to the President of the Borough of The Bronx, apportioned as follows:

Account No. 1886	$2,800 00
Account No. 1891	200 00
Account No. 1863	1,000 00

—and contending that rule "G," accompanying the resolutions in the Budget for 1912, wherein it is provided "that no transfer shall be made from any of the appropriations made herein under any classification other than 'Personal Service,' to an appropriation classified as 'Personal Service,'" is not violated in this instance, as

stated in the report of the Comptroller presented to the Board at the meeting held March 7, 1912, in relation to this transfer.

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

(On April 11, 1912, the above communication was laid over for one week.)

The Secretary presented communications as follows:

From the Acting President of the Borough of Queens requesting the issue of $553 special revenue bonds (section 546 of the Charter) for the purpose of reimbursing account 2057 for the year 1912 in the amount transferred therefrom on account of the removal of snow and ice.

From the Commissioner of Docks requesting that an appropriation of $2,500 be made for the purpose of defraying the expenses contingent upon the entertainment by The City of New York of delegates of the Permanent International Association of Navigation Congresses.

From the Commissioner of Docks requesting the amendment of resolution adopted March 14, 1912, approving of the specifications, form of contract and estimates of cost for furnishing general supplies to the Department of Docks and Ferries by increasing the estimates of cost for classes 14, 15, 18 and 19 to permit of awarding the contracts to the lowest bidders.

From John B. Creighton and Joseph Kapfer, of 44 Court street, Brooklyn, recommending that a certain amount of the $250,000 appropriated by the New York Legislature to be used for exhibit purposes at the Panama-San Francisco Fair in 1915 be set apart for the purpose of making a raised or relief map of The City of New York and its suburbs, which will serve as a permanent exhibit in one of the many local buildings or museums after it has served its purpose while on exhibition at the fair.

From Henry Kadel, of 25 Brenton avenue, Jamaica, New York, offering to sell to the City as a site for school purposes property adjoining Public School 49, Brenton avenue, Jamaica, Borough of Queens.

Which were referred to the Comptroller.

The Secretary presented communications as follows:

From the Fire Commissioner, requesting the amendment of various corporate stock authorizations in connection with the erection of new fire houses, by reducing the amount in certain authorizations and increasing the amount in others;

From the President of the Borough of The Bronx requesting that the unexpended balance, amounting to $49,779.46 in the corporate stock authorization of $50,000, adopted by the Board on July 17, 1911, to provide means for the purchase and planting of trees on the Grand Boulevard and Concourse, in the Borough of The Bronx, and the plans for said work prepared at an expenditure of $220.54, be transferred to the Commissioner of Parks, Borough of The Bronx, and that he be authorized to perform the work for which the money was appropriated;

From the Commissioner of Street Cleaning requesting the issue of corporate stock, pursuant to section 546 of the Charter, for improvements in said Department during the year 1912, as follows:

Covered dump for slip between piers 42 and 43, East River	$75,000 00
Covered dump at 79th street and East River	18,000 00
Alterations, etc., to storage building, foot of Delancey street, between East and Tompkins streets, Manhattan	43,500 00
Acquisition of property for stable purposes, to take place of present leased stable "F," 67th street, near 18th avenue, Brooklyn	75,000 00
Acquisition of property for stable purposes in neighborhood of 170th street and Southern boulevard, The Bronx	100,000 00
Purchase of present stable "F" at 525 East 80th street, Manhattan, and adjoining property for storage yard, etc	100,000 00

From the Secretary of the Board of Education transmitting certified copy of resolution adopted by said Board, requesting the amendment of resolutions adopted April 24, 1908, June 3, 1910, and January 26, 1911, relative to the issue of corporate stock for the construction and interior equipment of sundry school buildings and additions thereto, by making available $56,500, the amount necessary to defray the cost of heating and ventilating and for electric and furniture work in Public School 92, Queens;

From the Commissioner of Parks, Boroughs of Manhattan and Richmond, requesting that the resolution adopted by the Board on February 25, 1910, authorizing an additional issue of $925,000 corporate stock to provide means for the erection, construction and furnishing of the New York Public Library, Astor, Lenox and Tilden foundations, and for contingent expenses necessarily connected therewith, be amended by including therein the reconstruction of Bryant Park, west of the library building, and submitting a preliminary plan showing the proposed improvement;

From the Commissioner of Parks, Borough of Brooklyn, requesting an issue of $50,000 corporate stock to cover the preliminary cost of developing the property recently acquired by the City for park purposes at Coney Island, site formerly occupied by "Dreamland";

From the Secretary of the Board of Health requesting that an appropriation of $48,000 be included in the Corporate Stock Budget for the Department of Health, for the year beginning July 1, 1912, to provide for the construction of a stone seawall on the water-front of the Willard Parker and Reception Hospitals, Manhattan;

From the Secretary of the Board of Education transmitting certified copy of resolution adopted by said Board requesting that the resolution adopted July 17, 1911, authorizing an issue of $218,240 corporate stock, to provide means for the construction and equipment of an addition to Public School 49, Jamaica, Borough of Queens, be amended by making said amount available for the purchase of a site and the erection of a building in the vicinity of Hilldale avenue and North 1st street, Jamaica, Borough of Queens.

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 communications as follows:

From Moran Brothers offering to sell to the City, as a site for the establishment of a home for inebriates, property south of Stony Brook, Long Island, containing 739 acres, for the total sum of $110,850;

From the President of the Sloane Farm Egg and Poultry Company of White Lake, Sullivan County, New York, offering for sale land and buildings occupied by said farm for the sum of $40,000, to be used for the purpose of establishing an industrial home, etc., for inebriates.

Which were referred to the Corporate Stock Budget Committee and to the Board of Inebriety.

The Secretary presented a communication from the Secretary of the Board of Education transmitting certified copy of report and resolution adopted by said Board relative to the salaries of Cleaners in public schools and requesting that funds be provided to permit of the adoption of a proposed new schedule of salaries for Cleaners in public schools for the year 1913.

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

(On March 7, 1912, a communication from the President of the Cleaners' Association of the Public Schools requesting that the compensation of said position be increased was referred to the Board of Education.)

The Secretary presented a communication from the South Side Board of Trade of Brooklyn referring to the temporary injunction obtained by the Edison Electric Illuminating Company restraining the Board of Estimate and Apportionment from adopting a resolution nullifying certain franchises granted said Company by the Common Council of Brooklyn and requesting that the Corporation Counsel be directed to oppose any further adjournment of this action and to have the temporary injunction vacated.

Which was referred to the Corporation Counsel.

(In an opinion presented to the Board on July 27, 1912, the Corporation Counsel advised that the delay was not caused through any fault or neglect on the part of the Law Department, adjournments having been obtained by the plaintiff.)

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

$110, within the appropriation made to the Department of Correction for the year 1911.

Department of Correction of The City of New York, Commissioner's Office, 148 East 20th Street, New York, March 15, 1912.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment*, 277 Broadway, New York City:

Dear Sir—I would respectfully ask the Honorable the Board of Estimate and Apportionment to authorize the following transfer of appropriation made to this Department for the year 1911, from such as does not need the full amount assigned to it, to another appropriation which is insufficient for the purpose thereof:

From appropriation entitled
251 General Supplies $110 00
—to appropriation entitled
260 Contingencies $110 00

This transfer of funds is required to cover the amount of carfare bills for the last five months of the year 1911. Very respectfully,

PATRICK A. WHITNEY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, March 28, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 15, 1912, the Commissioner of Corrections requested the transfer of $110 within appropriations to his Department, for the year 1911. In connection therewith I report as follows:

The transfer is from No. 251, General Supplies, to No. 260, Contingencies. The appropriation for No. 260 was $4,600 and the expenditures and liabilities total $4,710. The deficit is made up mostly of carfare bills of employees attached to the different institutions on Blackwells Island and the Central Office. There is sufficient balance in No. 251, General Supplies, for the debit transfer.

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 Department of Correction for the year 1911, as follows:

FROM

251 General Supplies $110 00

TO

260 Contingencies $110 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

$191.28 within the appropriation made to the Board of City Record for the year 1911.

The City of New York, Board of City Record, Office of the Supervisor, 13-21 Park Row, March 22, 1912.

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

Dear Sir—The Board of Estimate and Apportionment is respectfully requested to transfer within the appropriations made for the year 1911 the sum of $191.28, viz.:

FROM

853	General Supplies	$100 96
855	Contingencies	10
856	Delivering Supplies to Departments	75
857	Printing, Lithographing, etc	89 47
		$191 28

TO

854 Telephone Service $191 28

—to cover deficiency in account for cost of telephone service during the year 1911.

Respectfully, DAVID FERGUSON, Supervisor of the City Record.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, March 28, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 22, 1912, the Supervisor of the City Record requested the transfer of $191.28 within appropriations to the Board of City Record, for the year 1911. In connection therewith I report as follows:

The request is in five supply accounts, and is to cover a deficit of $191.28 in No. 854, Telephone Service. The appropriation for No. 854 was $500. The debit transfers are as follows:

853	General Supplies	$100 96
855	Contingencies	10
856	Delivering Supplies to Departments	75
857	Printing, Lithographing, etc	89 47
		$191 28

There are sufficient balances to permit of these transfers.

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 Board of City Record for the year 1911, as follows:

FROM

853	General Supplies	$100 96
855	Contingencies	10
856	Delivering Supplies to Departments	75
857	Printing, Lithographing, Etc	89 47

TO

854 Telephone Service $191 28

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

$2,000 within the appropriation made to the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1912.

The City of New York, Department of Parks, Arsenal, Central Park, March 26, 1912.

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

Gentlemen—I respectfully request a transfer of $2,000 within the appropriations made in the Buget for the year 1912, as follows:

FROM

928 Supplies and Materials, Parks and Boulevards $2,000 00

TO

932 Housing, storage and repairs of apparatus, machines, harness and vehicles, except automobiles $2,000 00

The request is made necessary for the reason that when compiling the Budget for the year 1912, the amounts allowed for the various functions were estimated.

The following statement shows the expenditures that have so far been charged against the appropriation of $1,000 made for Account No. 932:

Repairs on harness and vehicles	$294 06
Repairs to machinery and apparatus	173 95
Repairs and parts of road-rolling machines	512 43
Total	$980 44

I am of the opinion that the transfer of $2,000 requested will be sufficient for the balance of this year, and respectfully request your immediate approval of same, for the reason that there is at the present time a great deal of road work under way, and the heavy rollers need constant attention. Yours 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, April 9, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 26, 1912, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the transfer of $2,000 within appropriations to his Department, for the year 1912. In connection therewith I report as follows:

The proposed transfer is from Supplies and Materials, Maintenance, No. 928,

Parks and Boulevards, to Housing, Storage and Repairs of Apparatus, Machines, Harness and Vehicles, except Automobiles, Maintenance, No. 932, Parks and Boulevards. The appropriation for No. 932 was $1,000, and the expenditures to March 26, were as follows:

Repairs on harness and vehicles	$294 06
Repairs to machinery and apparatus	173 95
Repairs and parts of road-rolling machines	512 43
	$980 44

The Commissioner states that the $2,000 additional is necessary for repairs to the end of the year. He further states that the $1,000 appropriation was estimated and that the main item of expenditure is the repairing of the heavy road rollers in use on road work.

The appropriation for No. 928 was $101,500. There is an unexpended balance of $53,000 in the account.

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 Parks, Boroughs of Manhattan and Richmond, for the year 1912, as follows:

FROM

Supplies and Materials.

Maintenance—
928 Parks and Boulevards $2,000 00

TO

Housing, Storage and Repair of Apparatus, Machines, Harness and Vehicles, Except Automobiles.

Maintenance—
932 Parks and Boulevards $2,000 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

$1,250 within the appropriation made to the President of the Borough of Brooklyn, for the year 1912.

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, April 2, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Dear Sir—In the Budget for 1912, for our Bureau of Highways, there was allowed for the purchase and original equipment of automobiles $1,750. When the Budget was made up, it was assumed that this would be a sufficient amount to purchase a fully equipped automobile for the Chief Engineer of that Bureau. We have discovered, however, that the amount necessary to purchase a fully equipped car will be about $2,000. It is the intention to advertise for bids for furnishing and delivering this car, therefore, the above amount will not be sufficient.

Under date of March 16, 1912, I communicated with you advising you of the fact that in a fire in our 67th street yard the automobile used by the Superintendent of our Bureau of Highways was destroyed. It therefore becomes necessary to purchase two automobiles for our Highway Bureau. We have an opportunity to purchase a Cadillac automobile which has been used, but is in good condition, for less than $1,000, which we consider will be a good proposition.

I respectfully request that you recommend to the Board of Estimate and Apportionment the transfer of $1,250 from Fund No. 1941, Supplies and Materials, Maintenance, to Fund No. 1991, Purchase and Original Equipment of Automobiles.

Yours very truly, ALFRED E. STEERS, President of the Borough.

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

To the Board of Estimate and Apportionment:

Gentlemen—On April 2, 1912, the President of the Borough of Brooklyn requested the transfer of $1,250 within supply appropriations to his office for the year 1912. In connection therewith I report as follows:

The proposed transfer is from Supplies and Materials, No. 1941, Maintenance, to Purchase and Original Equipment of Automobiles, No. 1991, Highways. The appropriation for No. 1991 was $1,750, which was the amount estimated for a new automobile for the Chief Engineer of the Bureau of Highways. The President states that it has now been found that a fully equipped car suitable for all purposes will cost $2,000. The transfer would give a total appropriation of $3,000.

It is proposed to apply the $1,000 balance to the purchase of an automobile for the Superintendent of the Bureau. The President states that a second-hand machine, in good repair, can be purchased for $1,000, and under the same guarantee as a new car.

The second-hand car is needed for a replacement. The old automobile used by the Superintendent was destroyed on March 12, 1912, by fire in the Corporation Yard of the Bureau of Highways at 67th street and 18th avenue, Brooklyn. It is stated that the substitute car is needed, without delay, to facilitate the work of the superintendent.

The appropriation for No. 1941 was $103,375, and there is a sufficient balance for the debit transfer.

In view of the foregoing, 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 office of the President of the Borough of Brooklyn for the year 1912, as follows:

FROM

Supplies and Materials—
1941 Maintenance $1,250 00

TO

Purchase and Original Equipment of Automobiles—
1991 Highways $1,250 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

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The Secretary presented the following communication from the Department of Health requesting, and report of the Comptroller recommending, the modification of salary schedules Nos. 300 and 305 supporting the appropriation made in the Budget for the year 1912, for said Department, to be effective as of April 1, 1912, providing for the transfer of a Medical Inspector, at $1,200 per annum, from schedule No. 300 to schedule No. 305, involving the transfer of $900:

Department of Health, City of New York, Corner of 55th Street and 6th Avenue, Borough of Manhattan, Office of the Secretary, New York, March 30, 1912.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* No. 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held March 26, 1912, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and is hereby respectfully requested to transfer the sum of $900 from the appropriation made to the Department of Health for the year 1912, entitled and as follows:

No. 300. Administration, Inspection, Child Hygiene, Salaries, Regular Employees,

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

No. 305. Administration, Inspection, Communicable Diseases, Salaries, Regular Employees,

—the amount of said appropriation being insufficient.

A true copy. EUGENE W. SCHEFFER, Secretary.

Department of Health, City of New York, Corner 55th Street and 6th Avenue, Borough of Manhattan, Office of the Secretary, New York, March 30, 1912.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* No. 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held March 26, 1912, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to approve of the following further changes and modifications in the schedules supporting the appropriations made to the Department of Health for salaries for the year 1912:

Supporting Schedule to No. 300—Administration and Inspection, Child Hygiene, Salaries, Regular Employees: Change item "Medical Inspectors, 117 at $1,200," to read "Medical Inspectors, 116 at $1,200."

Supporting Schedule to No. 305—Administration and Inspection, Communicable Diseases, Salaries, Regular Employees: Change item "Medical Inspector at $1,200," to read "Medical Inspectors 2 at $1,200."

A true copy. EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 11, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Board of Health on March 26, 1912, for the modification of two schedules of salaries in the Department of Health for the year 1912, involving a transfer of $900, I report as follows:

The only change proposed is the transfer of a Medical Inspector, at $1,200 per annum, from No. 300, Administration and Inspection, Child Hygiene, to No. 305, Administration and Inspection, Communicable Diseases.

The following table shows the schedule changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
300	Medical Inspector, 117 at $1,200	$1,200 00	.....	$900 00	.....
305	Medical Inspector, at $1,200....	.....	$1,200 00	.....	$900 00

No increase in compensation is involved.

I recommend 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, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Health for the year 1912, as follows:

FROM

300 Personal Service, Administration and Inspection, Child Hygiene—
Salaries, Regular Employees $900 00

TO

305 Personal Service, Administration and Inspection, Communicable Diseases—Salaries, Regular Employees.... ..... $900 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Health for the year 1912, to be effective as of April 1, 1912, as follows:

DEPARTMENT OF HEALTH.

Personal Service, Administration and Inspection.

Child Hygiene—

300	Salaries, Regular Employees:	
	Medical Inspector	$3,000 00
	Medical Inspector	2,550 00
	Medical Inspector	1,950 00
	Medical Inspector, 14 at $1,500	21,000 00
	Medical Inspector, 116 at $1,200	139,200 00
	Nurse	1,200 00
	Nurse, 205 at $900	184,500 00
	Clerk	1,500 00
	Clerk	1,200 00
	Clerk	1,050 00
	Clerk, 2 at $900	1,800 00
	Clerk, 2 at $600	1,200 00
	Clerk, 3 at $540	1,620 00
	Clerk, 4 at $480	1,920 00
	Clerk, 10 at $300	3,000 00
	Typewriting Copyist	900 00
	Typewriting Copyist	750 00
	Typewriting Copyist, 5 at $600	3,000 00
	Cleaner, 5 at $360	1,800 00
		$373,140 00

Personal Service, Administration and Inspection.

Communicable Diseases—

305	Salaries, Regular Employees:	
	Medical Inspector	$3,000 00
	Medical Inspector	1,800 00
	Medical Inspector, 30 at $1,500	45,000 00
	Medical Inspector, 2 at $1,200	2,400 00
	Bacteriologist	1,500 00
	Bacteriological Diagnostician, 2 at $1,350	2,700 00
	Bacteriological Diagnostician, 2 at $1,200	2,400 00
	Bacteriological Diagnostician	1,050 00
	Hospital Physician, 4 at $1,200	4,800 00
	Attending Physician, 45 at $600	27,000 00
	Assistant Attending Physician, 10 at $300	3,000 00
	Clerk	1,500 00
	Clerk, 4 at $1,200	4,800 00
	Clerk	1,050 00
	Clerk, 6 at $900	5,400 00
	Clerk, 6 at $750	4,500 00
	Clerk, 2 at $540	1,080 00
	Clerk, 13 at $480	6,240 00
	Clerk, 2 at $300	600 00
	Hospital Clerk	1,500 00
	Hospital Clerk	1,200 00
	Hospital Clerk	900 00
	Hospital Clerk, 3 at $750	2,250 00
	Hospital Clerk, 4 at $600	2,400 00
	Stenographer and Typewriter, 2 at $750	1,500 00
	Stenographer and Typewriter, 2 at $600	1,200 00
	Typewriting Copyist	900 00
	Typewriting Copyist	750 00
	Assistant Director, Bacteriological Laboratory	1,800 00
	Nurse	1,200 00
	Nurse, 153 at $900	137,700 00
	Laboratory Assistant, 2 at $900	1,800 00
	Laboratory Assistant, 6 at $750	4,500 00
	Laboratory Assistant, 13 at $600	7,800 00
	Cleaner, 14 at $360	5,040 00
	Laborer	900 00
	Laborer, 3 at $660	1,980 00
	Laborer, 2 at $600	1,200 00
	Balance unassigned	270 00
		$296,610 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

The Secretary presented the following communication from the Surrogate, Kings County, requesting, and report of the Comptroller recommending, the modification of salary schedule No. 2294, supporting the appropriation made in the Budget for the

year 1912, for the Surrogate's Court, Kings County, to be effective as of April 2, 1912, to provide for the mandatory promotion of a Clerk or Stenographer to the Surrogate, at $2,500, to Law Assistant at $3,000 per annum, and of a Certificate Clerk, at $2,300, to Certificate and Financial Clerk, at $3,000 per annum:

Chambers of Surrogate's Court, Brooklyn, N. Y., April 3, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, New York City:

My Dear Sir—I hereby request a modification of the 1912 salary schedule affecting this office (No. 2294, Salaries, Regular Employees), in the following particulars:

Clerk or Stenographer to the Surrogate	$2,500 00
to read	
Law Assistant	3,000 00
Certificate Clerk	2,300 00
to read	
Certificate and Financial Clerk	3,000 00

These changes in title have been made by the State Civil Service Commission, and in the case of the Law Assistant the change has been approved by the Governor, in accord with the Civil Service Law. The official communications from the Secretary of the State Civil Service Commission on the subject are hereto annexed.

In the case of the Law Assistant I made a transfer and appointment, and in the case of Certificate and Financial Clerk I made a promotion-appointment yesterday, the 2d day of April, 1912, to take effect then, and would respectfully request that the above modifications be made as of that date.

These changes in the schedule lines call for an increase of $1,200 in the salary schedule of this office, and the sum of $900 will be necessary to meet the increase for the remainder of this year.

I have fixed these salaries by virtue of the power confered upon me by chapter 688 of the Laws of 1911, adding section 2509a to the Code of Civil Procedure. Such salaries being made by said statute a county charge, I respectfully request the issuance of revenue bonds by you for the said sum of $900 under the provisions of section 188, subdivision 7 of the Charter of the City of New York.

Yours very respectfully, HERBERT T. KETCHAM, Surrogate.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 9, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 3, 1912, the Surrogate of Kings County requested an appropriation of $900 to pay increased compensation to two employees in his office from April 2 to December 31, 1912. In connection therewith, I report as follows:

On April 2 the Surrogate promoted an incumbent from the position of Clerk or Stenographer to the Surrogate at $2,500, to Law Assistant at $3,000 per annum. The other incumbent was promoted on the same date from the position of Certificate Clerk at $2,300, to Certificate and Financial Clerk at $3,000. The promotions have been approved by the State Civil Service Commission.

Chapter 688 of the Laws of 1911, in relation to the Surrogate's Court of Kings County, provides the following:

> "* * * The compensation of the chief clerk and of the other clerks and officers of the court and offices of such surrogate shall, notwithstanding any other provision of law, be fixed by the said surrogate, and the same shall be a county charge."

The payment of these increases therefore being a mandatory county charge, the funds necessary will be provided 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 modifying the proper 1912 schedule for the Surrogate's Court to include the increases.

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 Surrogate's Court, Kings County, for the year 1912, to be effective as of April 2, 1912, as follows:

SURROGATE'S COURT, KINGS COUNTY.
Personal Service.

		Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds	Total.
	Administration—			
2294	Salaries, Regular Employees:			
	Surrogate	$10,000 00	.....	$10,000 00
	Chief Clerk and Clerk of the Court	9,000 00	.....	9,000 00
	Probate Clerk	3,500 00	.....	3,500 00
	Administration Clerk	3,500 00	.....	3,500 00
	Accounting Clerk	4,000 00	.....	4,000 00
	Chief of Records and Interpreter	3,000 00	.....	3,000 00
	Stenographer	3,000 00	.....	3,000 00
	Guardian Accounting Clerk	2,700 00	.....	2,700 00
	Law Assistant, 1 at $3,000	2,500 00	$500 00	3,000 00
	Index Clerk	1,950 00	.....	1,950 00
	Assistant Administration Clerk	2,100 00	.....	2,100 00
	Assistant Probate Clerk	2,700 00	.....	2,700 00
	Calendar Clerk	2,100 00	.....	2,100 00
	Certificate and Financial Clerk, 1 at $3,000	2,300 00	700 00	3,000 00
	Chief Court Attendant	2,000 00	.....	2,000 00
	Assistant Accounting Clerk	1,500 00	.....	1,500 00
	Assistant Chief of Records	1,350 00	.....	1,350 00
	Court Officer, 5 at $1,500	7,500 00	.....	7,500 00
	Recording Clerk, 8 at $1,100	8,800 00	.....	8,800 00
	Recording Clerk, 2 at $1,200	2,400 00	.....	2,400 00
	Clerk	1,800 00	.....	1,800 00
	Clerk	1,500 00	.....	1,500 00
	Clerk	1,350 00	.....	1,350 00
	Chief Recording Clerk	1,300 00	.....	1,300 00
	Chief Custodian	1,300 00	.....	1,300 00
	Custodian	1,200 00	.....	1,200 00
	Custodian	1,000 00	.....	1,000 00
	Typewriter and Copyist	1,200 00	.....	1,200 00
	Stenographer's Amanuensis	1,500 00	.....	1,500 00
	Clerk or Stenographer to Chief Clerk	1,500 00	.....	1,500 00
	Messenger	1,200 00	.....	1,200 00
	Telephone Operator	900 00	.....	900 00
	Comparer, 2 at $1,200	2,400 00	.....	2,400 00
	Schedule total			$95,250 00
	Tax levy part allowance			$94,050 00
	Rate of special revenue bond part allowance			1,200 00
	Total allowance			$95,250 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Brooklyn requesting, and report of the Comptroller relative to, the modification of salary schedule No. 1929, supporting the appropriation made in the Budget for the year 1912, for the office of said Borough President, to take effect as of April 1, 1912, providing for an increase in the salary of an Assistant Engineer from $2,550 to $3,000, and for a decrease in the salary of an Assistant Engineer from $2,250 to $1,800, and for the substitution of a Rodman at $1,200 and a Clerk at $600 for a Transitman at $1,800 per annum, and a Topographical Draftsman at $1,800 per annum for an Architectural Draftsman at the same salary:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, March 14, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller, Department of Finance, City of New York:*

Dear Sir—I transmit herewith copy of proposed schedule, No. 1929, Bureau of Sewers, Engineering Division, Salaries, Regular Employees, for which I respectfully ask you to have your Bureau of Investigation and Statistics prepare a report to the Board of Estimate and Apportionment recommending the establishment of same. The changes in this schedule will

Increase the line "Assistant Engineers at $3,000 per annum" from 7 to 8.
Decrease the line "Assistant Engineers at $2,550 per annum" from 2 to 1.
Decrease the line "Assistant Engineers at $2,250 per annum" from 9 to 8.
Increase the line "Assistant Engineers at $1,800 per annum" from 4 to 5.
Decrease the line "Transitman at $1,800 per annum" from 7 to 6.
Substitute the lines "Rodman at $1,200 per annum" one (1); "Clerk at $600 per annum" one (1).

Yours very truly, ALFRED E. STEERS, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 14, 1912, the President of the Borough of Brooklyn requested modification of the schedule for the Bureau of Sewers, Engineering, No. 1929, Salaries, Regular Employees, Tax Levy and Special and Trust Fund Force, in his office for the year 1912. In connection therewith I report as follows:

It is proposed to increase an Assistant Engineer from $2,550 to $3,000 per annum, the $450 necessary to be provided by a corresponding decrease of an Assistant Engineer from $2,250 to $1,800 per annum. It is also proposed to substitute a Rodman, at $1,200, and a Clerk, at $600, for a Transitman at $1,200 per annum.

The employee proposed for increase is Frank J. Conlon, appointed on August 26, 1895, as an Assistant Draftsman, at $3 per day, in the Department of Public Works, Bureau of Sewers. On March 7, 1899, his compensation was increased to $1,200 per annum. On April 1, 1901, he was promoted to the position of Draftsman, at $1,500, and on January 1, 1902, he was transferred to the office of the President of the Borough of Brooklyn. On March 1, 1905, he was increased to $1,950, and on September 1, 1905, he was promoted to the position of Assistant Engineer, at $2,250 per annum. On May 1, 1909, his salary was fixed at the present rate.

The President further requested orally that a Topographical Draftsman at $1,800 be dropped from the schedule and an Architectural Draftsman at the same rate be added. This change is necessitated by the cessation of the services of a Topographical Draftsman and a transfer of Robert Curry, Architectural Draftsman, at $1,800.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Increase.	Schedule Transfer. Decrease.	Cash Transfer. Increase.	Cash Transfer. Decrease.
1929	Assistant Engineer, 7 at $3,000	$3,000 00	.....	$2,250 00	.....
	Assistant Engineer, 2 at $2,550	.....	$2,550 00	.....	$1,912 50
	Assistant Engineer, 9 at $2,250	.....	2,250 00	.....	1,687 50
	Assistant Engineer, 4 at $1,800	1,800 00	.....	1,350 00	.....
	Transitman, 7 at $1,800	.....	1,800 00	.....	1,350 00
	Rodman, 9 at $1,200	1,200 00	.....	900 00	.....
	Clerk, at $600	600 00	.....	450 00	.....
	Topographical Draftsman, 4 at $1,800	.....	1,800 00	.....	1,350 00
	Architectural Draftsman, 1 at $1,800	1,800 00	.....	1,350 00	.....
		$8,400 00	$8,400 00	$6,300 00	$6,300 00

The modification gives an additional incumbent, and is in compliance with the resolution governing salary increases adopted by your Board on October 5, 1911.

The attached resolution, if adopted, will grant 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 President of the Borough of Brooklyn for the year 1912, to take effect as of April 1, 1912, as follows:

President of the Borough of Brooklyn, Personal Service, Sewers, Engineering.

Tax Levy and Special and Trust Fund Force—

1929	Salaries, Regular Employees:	
	Chief Engineer	$6,000 00
	Assistant Engineer, 4 at $4,000	16,000 00
	Assistant Engineer, 8 at $3,000	24,000 00
	Assistant Engineer	2,550 00
	Assistant Engineer, 8 at $2,250	18,000 00
	Assistant Engineer, 2 at $2,100	4,200 00
	Assistant Engineer, 5 at $1,800	9,000 00
	Transitman, 6 at $1,800	10,800 00
	Leveler, 3 at $1,500	4,500 00
	Rodman, 10 at $1,200	12,000 00
	Axeman, 3 at $900	2,700 00
	Architectural Draftsman, 2 at $1,800	3,600 00
	Draftsman	1,800 00
	Topographical Draftsman, 3 at $1,800	5,400 00
	Topographical Draftsman, 4 at $1,650	6,600 00
	Topographical Draftsman, 7 at $1,500	10,500 00
	Mechanical Draftsman	1,500 00
	Mechanical Draftsman	1,350 00
	Draftsman's Helper	1,050 00
	Clerk	2,100 00
	Clerk	1,800 00
	Clerk With Knowledge of Typewriting	1,500 00
	Clerk	1,050 00
	Clerk	600 00
	Stenographer and Typewriter, 3 at $1,200	3,600 00
	Automobile Engineman	1,200 00
	Driver, 4 at $900	3,600 00
	Schedule total	$157,000 00
	Tax levy, part allowance	$81,595 00
	Special and trust fund, part allowance	75,405 00
	Total allowance	$157,000 00

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of $50,000 special revenue bonds (subdivision 8, section 188 of the Charter), the purpose of continuing the sewage purification experimental work at the 26th Ward Sewage Disposal Plant, Brooklyn, under the jurisdiction of the President of the Borough of Brooklyn:

(On March 28, 1912, the resolution of the Board of Aldermen, requesting the above issue, 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 fifty thousand dollars ($50,000), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of continuing the sewage purification experimental work, at the 26th Ward Sewage Disposal Plant, in the Borough of Brooklyn.

Adopted by the Board of Aldermen March 5, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor March 19, 1912, without his approval or dis-

approval 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, April 9, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 5, 1912, the Board of Aldermen adopted a resolution requesting your Board to approve an issue of $50,000 in special revenue bonds, to be used by the President of the Borough of Brooklyn for the purpose of continuing the sewage purification experimental work, at the 26th Ward Sewage Disposal Plant, in the Borough of Brooklyn. In connection therewith I report as follows:

The Local Board of the New Lots District on December 15, 1911, adopted a resolution approving of the installation of "a biological plant of sufficient capacity to care for the sewerage discharged at the 26th Ward Disposal Works, and to make such changes as are necessary for the proper purification of sewerage." The Board also recommended to the Board of Estimate and Apportionment "that a proportionate share for the cost of said improvement be deducted from the property which was taxed for the original construction of the 26th Ward Disposal Works."

An estimate of cost for the construction of a plant and the installation of equipment was completed by the Chief Engineer of Sewers of the Borough of Brooklyn on March 7, 1910, and contained the following items:

3.2	acres of filter beds	$134,800 00
	Hydrolytic tanks	22,260 00
	Settling basins	13,444 00
2	12,000,000-gallon capacity pumps	12,000 00
900	linear feet supply mains to beds	10,800 00
750	linear feet 48 inch cast iron main	10,150 00
1,278	linear feet 30 inch distributing mains	6,379 00
3,000	linear feet 4 inch cast iron pipe	1,000 00
32,490	yards of top soil removed	9,747 00
	Dredging storm water outlet	49,300 00
	Engineering and inspection	26,988 00
		$296,868 00

The Chief Engineer of Sewers stated in a report accompanying his estimate that in his opinion the cost of dredging the storm water outlet should not be charged to the whole area eventually to be tributary to these works. The storm water outlet discharges into Fresh Creek Basin and will not use the proposed sewer outlet, but should be dredged at this time. In the Chief Engineer's opinion the dredging should be done at the same time that the works are rebuilt. Based upon this opinion a deduction therefore may be made from the estimated cost of the improvement to the extent of the cost of dredging, leaving the estimated net cost $247,568. This amount may be charged and assessed upon the 26th Ward and Map X, an area of about 4,250 acres.

On January 2, 1912, the Chief Engineer of the Board of Estimate and Apportionment submitted a report with respect to the construction of the sewerage treatment plant at the 26th Ward. He stated that there did not appear to be any definite plan as to the nature of the plant to be erected, and further that the entire question of sewerage disposal in The City of New York has not received the study that the problem should demand, and furthermore that the specific problem as to the 26th Ward plant involves features that are substantially novel, in that the present plans are contemplated to include such treatment of sewerage as to purify and sterlize the effluent so as to permit of a continuation of the shell fish industry in Jamaica Bay. Whether or not this can be done is a matter, in the opinion of the Chief Engineer of this Board, that experiment by actual tests will show.

The Chief Engineer concludes that actual construction of the plant should not be inaugurated until such time as the subject has been thoroughly investigated and experiments conducted with a view of obtaining absolutely reliable information; and recommends that as soon as this work has progressed to such a degree as to justify such action that preliminary authorization be given the Borough President to draw upon the Street Improvement Fund for the expenses incidental to the preparation of the final plans.

On January 11, 1912, your Board referred the matter to a committee consisting of the five Borough Presidents, who reported on February 8, 1912, in part, as follows:

> There is much serious agitation relating to the polution of Jamaica Bay as affecting the shellfish industry, and we believe it proper that a preliminary authorization be given immediately to cover the preparation of plans for the remodeling of the plant so that progress can be made toward that end, and so that as soon as the proper solution of the problem is reached, the plans will be nearly in readiness and can soon be completed and advertised for bids.
>
> Since the drainage area served by the 26th Ward Disposal Plant includes a small area in the Borough of Queens, it will be necessary to secure action by the appropriate Local Board of that Borough, similar to that already given by the Local Board of the New Lots District of the Borough of Brooklyn; and it is recommended that the Secretary of the Board call the attention of the President of the Borough of Queens to this fact, with the request that he secure appropriate action upon this matter.
>
> Your Committee respectfully recommends, therefore, that funds to the amount of $50,000 be made available at the earliest possible moment for continuation of the experiment, in accordance with the expressed intention of this Board; that a recommendation to that effect be made to the Board of Aldermen, and that as soon as similar action has been taken by the appropriate Local Board of the Borough of Queens, the resolution of the Brooklyn Local Board for the New Lots District of December 15, 1911, for the remodeling of the 26th Ward Plant, be also approved and adopted immediately, as an earnest of the City's endeavor to ameliorate the conditions in Jamaica Bay.
>
> It is further recommended that the Chief Engineer of the Board of Estimate and Apportionment and the Consulting Engineers of the various Boroughs be constituted an advisory committee to co-operate with the Borough Presidents in connection with the series of sewage treatment experiments to be carried out at the existing sewage plants in the Boroughs of Queens and Brooklyn and at the proposed sewage experiment station at the 26th Ward Plant in the Borough of Brooklyn, and at the experiment station, for which money has already been appropriated, in the Borough of Richmond.
>
> It is further recommended that such experimental work as will best solve the problems in connection with the design of a permanent plant, to be located on Hendrix street, between Fairfield and Vandalia avenues, in the Borough of Brooklyn, be carried out as expeditiously as possible.

In view of the foregoing, 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 March 5, 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 President of the Borough of Brooklyn for the purpose of continuing the sewage purification experimental work at the 26th Ward Sewage Disposal Plant, in the Borough of Brooklyn, 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, issue of $4,200 special revenue bonds (subdivision 8, section 188 of the Charter), for the purpose of fitting up quarters for the Appellate Term of the Supreme Court, Second Department, in the Offerman Building, Brooklyn, under the jurisdiction of the President of the Borough of Brooklyn; also recommending modification of schedule 1990, supporting the appropriation made in the Budget for the year 1912, for the office of the President of the Borough of Brooklyn, to include the above appropriation;

(On March 21, 1912, the resolution of the Board of Aldermen requesting the above issue 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 four thousand two hundred dollars ($4,200), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of fitting up quarters for the Appellate Term of the Supreme Court, Second Department, in the Offerman Building, Brooklyn, N. Y.

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, April 11, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On February 27, 1912, the Board of Aldermen adopted a resolution requesting $4,200 in special revenue bonds, to be used by the President of the Borough of Brooklyn for the purpose of fitting up quarters for the Appellate Term of the Supreme Court, Second Department, in the Offerman Building, Brooklyn. In connection therewith I report as follows:

In a communication to the Board of Aldermen on February 27, 1912, the President of the Borough of Brooklyn stated that the Supreme Court in the Second Department had decided to open a new part known as the Appellate Term, and that in accordance with the provisions of chapter 834 of the Laws of 1911, the Borough President must furnish and equip the necessary offices and rooms. The President, in accordance therewith, submitted an estimate of cost as follows:

Court Room—	
Judge's platform and desk	$300 00
3 chairs for Judge's desk	105 00
1 roll top desk and chair	65 00
3 tables	45 00
75 chairs for court room	800 00
Carpet	472 50
Judge's Consultation Room—	
2 tables and 6 chairs	140 00
1 clothes tree	8 00
Carpet	87 50
Judge's Reception Room—	
1 desk and 4 chairs	90 00
Carpet	47 25
Judge's Chambers (3 rooms)—	
3 desks and 3 chairs	225 00
6 arm chairs	90 00
3 rugs	30 00
Carpet	157 50
Chief Clerk's and Deputy Clerk's Rooms—	
2 desks and 2 desk chairs	130 00
5 arm chairs	50 00
Rugs and clothes trees	30 00
Carpets	171 50
General Clerk's Room—	
Roll top desks and chairs	50 00
2 arm chairs	20 00
1 typewriter desk and chair	50 00
Shelving	50 00
Linoleum and rug	110 00
Public Hall—	
Linoleum	125 00
Miscellaneous—	
10 clothes lockers	75 00
Electric buzzer system	30 00
Electric fans	150 00
1 typewriting machine	60 00
Metal cabinets (document and safe)	243 00
3 clocks	40 00
Lettering on doors	30 00
Window shades	13 00
Window ventilators	26 00
Cuspidors	5 00
	$4,121 25

The Commissioners of the Sinking Fund have made provision for the accommodation of the Court in the Offerman Building, at Fulton and Duffield streets, Brooklyn.

I recommend the adoption of the attached resolutions approving the request and modifying the schedule. 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 four thousand two hundred dollars ($4,200), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of fitting up quarters for the Appellate Term of the Supreme Court, Second Department, in the Offerman Building, Borough of Brooklyn, 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 two hundred dollars ($4,200), 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule for the appropriation made to the President of the Borough of Brooklyn for the year 1912, as follows:

PRESIDENT, BOROUGH OF BROOKLYN.

		Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
	Purchase of Furniture and Fittings—			
1990	Public Building and Offices:			
	General	$4,000 00	.....	$4,000 00
	Supreme Court, Second Department, Appellate Term	.....	$4,200 00	4,200 00
	Schedule Total			$8,200 00
	Tax Levy Allowance			$4,000 00
	Special Revenue Bond Allowance			4,200 00
	Total Allowance			$8,200 00

Which was adopted by the following vote:

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

The Secretary presented the following resolution of the Board of Aldermen requesting issue of $2,500 special revenue bonds (subdivision 8, section 188 of the Charter), for the purpose of providing for the salary of the Secretary to the President of the Borough of Queens, from March 1 to December 31, 1912, together with a report of the Comptroller, recommending the issue of $2,000 to pay said salary from May 1, 1912, and also recommending the modification of Salary Schedule No. 1994, supporting the appropriation made in the Budget for the year 1912, for the office of the President of the Borough of Queens, to take effect May 1, 1912, to provide for the above position:

(On February 29, 1912, the resolution of the Board of Aldermen, as above, 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 two thousand five hundred dollars ($2,500), the proceeds whereof to be used by the President of the Borough of Queens, for the purpose of paying the salary of a Secretary from March 1, 1912, at the rate of $3,000 per annum.

Adopted by the Board of Aldermen February 6, 1912, three-fourths of all the members elected voting in favor thereof.

Received from his Honor the Mayor February 20, 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, April 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On January 5, 1912, the President of the Borough of Queens requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the position of Secretary to the President, at $3,000 per annum. This request was referred to the Committee on Salaries and Grades.

Before the Committee on Salaries and Grades had time to report the Borough President discovered that there was an existing grade of Secretary at $3,000 per annum.

Accordingly he requested the Board of Aldermen to request the Board of Estimate and Apportionment to authorize the issue of special revenue bonds to pay the salary of a Secretary at this rate.

On February 6, 1912, the Board of Aldermen adopted a resolution requesting the authorization of $2,500 to pay the salary of a Secretary from March 1, 1912, at the $3,000 rate. This request was referred to the Comptroller.

The appropriations in the 1912 Budget for the salaries of Secretaries in the office of the Borough Presidents are as follows:

President, Borough of Manhattan.

Secretary of the Borough	$5,000 00
Secretary to the President	4,000 00
	$9,000 00

President, Borough of The Bronx.

Secretary	$4,000 00
Clerk to President	2,700 00
	$6,700 00

President, Borough of Brooklyn.

Secretary of the Borough	$3,500 00
Secretary to the President	4,000 00
	$7,500 00

President, Borough of Queens.

Secretary of the Borough	$4,000 00
Clerk to the President	3,000 00
	$7,000 00

President, Borough of Richmond.

Secretary of the Borough	$2,500 00
Executive Clerk	3,000 00
	$5,500 00

It would appear from this table that the President of the Borough of Queens is already well provided with secretarial help. However, there is a peculiar condition in his office which makes the actual provision less than the figures make it appear. The position of Clerk to the President is in three of the Boroughs and is intended to be equivalent to that of Secretary to the President. This position is naturally of a confidential character. However, in the Borough of Queens this confidential relation is destroyed by the fact that the position of Clerk to the President is not an exempt position, but is filled at this time by an incumbent who was removed and afterwards reinstated by order of the courts. In view of the circumstances in this case I believe that the additional position of Secretary should be provided.

Therefore I recommend the adoption of the attached resolutions, one of which authorizes the issue of special revenue bonds to the amount of $2,000 to pay the salary of a Secretary at the rate of $3,000 a year from May 1, 1912, to the end of the year, and the other providing for a schedule with this added position. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on February 6, 1912, requesting the issue of special revenue bonds in the sum of two thousand five hundred dollars ($2,500), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of paying the salary of a Secretary from March 1, 1912, at the rate of $3,000 per annum, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of providing for the salary of a Secretary from May 1, 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, 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedules for the appropriations made to the President, Borough of Queens, for the year 1912, as revised, to take effect May 1, 1912, as follows:

PRESIDENT, BOROUGH OF QUEENS.

Personal Service.

General Administration.

			Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
	Executive—				
1994	Salaries, Regular Employees:				
	President of the Borough		$5,000 00	.....	$5,000 00
	Secretary of the Borough		4,000 00	.....	4,000 00
	Secretary to the President		.....	$3,000 00	3,000 00
	Commissioner of Public Works		4,000 00	.....	4,000 00
	Assistant Commissioner of Public Works		3,000 00	.....	3,000 00
	Secretary to the Commissioner of Public Works		1,800 00	.....	1,800 00
	Consulting Engineer		6,000 00	.....	6,000 00
	Clerk to the President		3,000 00	.....	3,000 00
	Stenographer to the President		1,500 00	.....	1,500 00
	Confidential Inspector		1,800 00	.....	1,800 00
	Clerk		2,100 00	.....	2,100 00
	Clerk, 2 at $1,800		3,600 00	.....	3,600 00
	Clerk		1,500 00	.....	1,500 00
	Clerk		900 00	.....	900 00
	Stenographer and Book Typewriter (Male)		1,200 00	.....	1,200 00
	Inspector of Complaints		1,200 00	.....	1,200 00
	Automobile Engineman		1,050 00	.....	1,050 00
		Schedule Total			$44,650 00
		Tax Levy Allowance			$41,650 00
		Rate of Special Revenue Bond Allowance			3,000 00
		Total Allowance			$44,650 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, 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 approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of the form of contract, plans, specifications and estimate of cost ($5,600) for furnishing and installing a water supply system for the park plots along the centre of 7th avenue, between 110th and 153d streets, Manhattan, under the jurisdiction of said Department:

The City of New York, Department of Parks, Arsenal, Central Park, March 27, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller, City of New York:*

Dear Sir—Herewith I beg to forward for the approval of the Honorable Board of Estimate and Apportionment, as required, form of contract, specifications and plan for furnishing and installing a water supply system for the park plots along the centre of 7th avenue, between 110th street and 153d street, in the Borough of Manhattan.

The estimated cost is $5,600 and will be chargeable against the fund provided for the purpose by the issue of corporate stock, namely C. D. P.-91, 7th Avenue Parkway, General Improvement from Central Park to the Harlem River. 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, April 8, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 27, 1912, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested approval of the form of contract, plans, specifications and estimate of cost in the sum of $5,600 for furnishing and installing a water supply system for the park plots along the center of 7th avenue, between 110th and 153d streets, Manhattan.

The cost is to be paid from a corporate stock fund of $75,000, approved by the Board of Estimate and Apportionment on July 17, 1911, and by the Board of Aldermen on July 25, 1911, and entitled "C. D. P.-91, 7th Avenue Parkway, General Improvement, from Central Park to the Harlem River." On April 4, 1912, there was an unencumbered balance of $70,420.39 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 five thousand six hundred dollars ($5,600), for furnishing and installing a water supply system for the park plots along the centre of 7th avenue, between 110th and 153d streets, Manhattan, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, the cost to be paid from the corporate stock fund entitled, "C. D. P.—91, 7th Avenue Parkway, General Improvement, from Central Park to the Harlem River."

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of the form of contract, specifications, plans and estimate of cost ($7,000), for installing electric equipment in additions to and alterations in Public School 132, Manhattan, under the jurisdiction of the Department of Education, said approval, however, not to cover those portions of the specifications and plans which refer to alterations, repairs or renewals of the existing apparatus, at an estimated cost of $900, which is chargeable to other than corporate stock funds:

Board of Education, Park Avenue and 59th Street, New York, April 3, 1912.

Hon. W. A. PRENDERGAST, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of April 2, 1912, reading as follows:

> "I am forwarding herewith plans and specifications for installing electric equipment in additions to and alterations in Public School 132, Borough of Manhattan, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment, in compliance with the resolution adopted by that Board on January 5, 1911.
>
> "The plans and specifications have just been returned by the Department of Water Supply, Gas and Electricity, approved, as noted on same."

Approximate cost, $7,900.

Mr. Snyder states that the cost of this work is chargeable to corporate stock account C. D. E.—100B.

The plans and specifications mentioned in the above quoted letter are transmitted herewith. Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 10, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On April 3, 1912, the Board of Education requested approval of the form of contract, specifications, plans and estimate of cost in the sum of $7,900, for installing electric equipment in addition to, and alterations in, Public School 132, Borough of Manhattan.

The form of contract is satisfactory. The plans and specifications include repairs, renewals and alterations to the electric equipment of the present building, the cost of which is estimated at $900. This expense is not a corporate stock charge. The resolution of the Board of Estimate and Apportionment adopted on July 17, 1911, as amended on August 31, 1911, refers only to contracts payable from the proceeds of corporate stock. The estimated cost of $7,000 for the part of the work chargeable to corporate stock is reasonable. The $7,000 is chargeable to the unencumbered balance of $76,796 (as of April 8, 1912), in the corporate stock fund entitled, "C. D. E.—100B, School Buildings, Construction and Equipment, Manhattan, Subtitle 2." The appropriation, in the sum of $230,140, was authorized by the Board of Estimate and Apportionment on April 13, 1911.

The specifications and plans have been approved by the Department of Water Supply, Gas and Electricity.

I recommend the adoption of the attached resolution approving the request, to the extent of the amounts properly chargeable to corporate stock. 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, specifications, plans and estimate of cost to the extent of the amount properly chargeable to corporate stock, estimated at seven thousand dollars ($7,000), for installing electric equipment in additions to and alterations in Public School 132, Manhattan, under the jurisdiction of the Department of Education, the cost of the work chargeable to corporate stock to be paid out of corporate stock fund entitled, "C. D. E.—100B, School Buildings, Construction and Equipment, Manhattan, Subtitle 2": this approval not to cover those portions of the specifications and plans which refer to alterations, repairs or renewals of the existing apparatus in the present building, estimated to cost nine hundred dollars ($900), the cost of which is chargeable to other than corporate stock funds.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the Department of Health requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of the form of final

contract with William E. Austin, for services as architect in the preparation of complete plans, specifications, etc., and the supervision of the construction of an underground tunnel at the Willard Parker Hospital, at an estimated fee of $1,466.66, under the jurisdiction of said Department:

Department of Health, City of New York, Corner 55th Street and 6th Avenue, Borough of Manhattan, Office of the Secretary, New York, March 25, 1912.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 299 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held March 19, 1912, the following resolutions were adopted:

Resolved, That the preliminary plans and specifications for the underground tunnel work at Willard Parker Hospital, Borough of Manhattan, as prepared and submitted by William E. Austin, of 46 West 24th street, Borough of Manhattan, be and the same are hereby approved and accepted.

Resolved, That the Board of Estimate and Apportionment be and is hereby respectfully requested to approve of the final contract for the services of William E. Austin, of 46 West 24th street, Borough of Manhattan, in preparing complete plans and specifications for and supervising the construction of an underground tunnel at the Willard Parker Hospital, Borough of Manhattan, at a total cost not to exceed five per cent. of the cost of the above work.

A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 11, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 25, 1912, the Board of Health requested approval of a form of final contract at an estimated cost of $1,466.66, for the services of William E. Austin, of No. 46 West 24th street, Manhattan, as architect, for the preparation of complete plans, specifications, etc., and the supervision of the construction of the proposed underground tunnel, at the Willard Parker Hospital, Borough of Manhattan.

The cost of the proposed contract is to be paid from an unencumbered balance of $34,800 (as of April 10, 1912), in the corporate stock fund, entitled "C. D. H.—19A, Department of Health, Construction of an Underground Tunnel at Willard Parker and Reception Hospitals." The authorization, in the sum of $35,000, was approved by the Board of Estimate and Apportionment on July 17, 1911, and by the Board of Aldermen on July 25, 1911.

The compensation is five per cent. on the cost of the construction work, less the amount paid for preliminary work, and is reasonable.

The form of contract is similar to the form for final architect's contracts prepared by the Corporation Counsel.

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 its resolution of July 17, 1911, as amended on August 31, 1911, hereby approves the form of final contract with William E. Austin, for services as Architect for the preparation of complete plans, specifications, etc., and the supervision of the construction of the proposed underground tunnel at the Willard Parker Hospital, Borough of Manhattan, under the jurisdiction of the Department of Health, at an estimated cost of one thousand four hundred and sixty-six dollars and sixty-six cents ($1,466.66), being five per cent. of the estimated cost of the construction work, less the amount paid under the terms of the preliminary contract; the cost to be charged against the corporate stock fund entitled, "C. D. H.—19A, Department of Health, Construction of an Underground Tunnel at Willard Parker and Reception Hospitals."

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, that the resolution adopted March 14, 1912, which approved of the form of contract, plans, specifications for installing heating and ventilating apparatus at an estimated cost of $46,000 (item 1), and for installing temperature regulation at an estimated cost of $4,600 (item 2), in new Public School 47, Borough of The Bronx, pursuant to resolution adopted July 17, as amended August 31, 1911, be amended, by increasing the estimate of cost of item 1 to $47,964, to permit of awarding the contract to the lowest bidder, under the jurisdiction of the Department of Education:

Board of Education, Park Avenue and 59th Street, New York, March 26, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller, The City of New York:*

Dear Sir—I have the honor to advise you that at a meeting of the Committee on Buildings, held on the 25th inst., it was ordered that you be requested to amend the approximate estimate of cost for item 1, installing heating and ventilating apparatus in new Public School 47, The Bronx, by changing the amount from $46,000 to $47,964.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

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

To the Board of Estimate and Apportionment:

Gentlemen—On March 26, 1912, the Board of Education requested that $47,964 be approved as a new estimate of cost for (Item 1) installing, heating and ventilating apparatus in the new Public School 47, Borough of The Bronx.

On March 14, 1912, the Board of Estimate and Apportionment approved an estimate of cost in the sum of $46,000. After public advertising, six bids were received and opened. The lowest bid was that of the Raidler Heating Company, for $47,964, which is a reasonable amount for this work.

The cost of the work is to be charged to the corporate stock fund entitled "C. D. E.—77F, School Building Fund, Interior Construction and Equipment, The Bronx, Subtitle 9." The appropriation, in the sum of $82,000, was approved by the Board of Estimate and Apportionment on January 11, 1912, and by the Board of Aldermen on February 6, 1912. On April 3, 1912, no expenditures had been made from the fund.

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 Estimate and Apportionment on March 14, 1912, as follows:

"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 plans, specifications, estimate of cost and form of contract for *Item* 1, *Installing, Heating and Ventilating Apparatus, estimated cost, forty-six thousand dollars* ($46,000); and Item 2, Installing Temperature Regulation, estimated cost, four thousand six hundred dollars ($4,600), in new Public School 47, Borough of The Bronx, under the jurisdiction of the Department of Education, provided that the form of contract for Item 1 be amended by inserting in paragraph (M) the amount of liquidated damages as twenty-five dollars ($25) per day, and that the form of contract for Item 2 be amended by inserting in paragraph (M) the amount of liquidated damages as ten dollars ($10) per day. The cost of the work to be charged to the corporate stock fund entitled, "C. D. E.—77F, School Building Fund, Interior Construction and Equipment, The Bronx, Subtitle 9;"

—be *amended* to make the estimate of cost for *Item* 1, *forty-seven thousand nine hundred and sixty-four dollars* ($47,964).

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the Department of Public Charities requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted July 17, as amended August 31, 1911, of the forms of final contracts with Frank J. Helmle, architect, for services in the preparation of complete plans, specifications, etc., and supervising the construction and erection of various buildings and other improvements, under the jurisdiction of said Department:

Department of Public Charities of The City of New York, Foot of East 26th Street, March 18, 1912.

Hon. WILLIAM A. PRENDERGAST, *Comptroller of The City of New York:*

Sir—In accordance with a resolution adopted by the Board of Estimate and Apportionment directing that all City Departments, authorized by the said Board to incur obligations and execute contracts payable out of corporate stock, submit plans, specifications, form of contract and estimate of cost prior to advertising for bids upon public works, payable out of such corporate stock, I beg to submit for your consideration and report thereon to the Board of Estimate and Apportionment the final contracts for architectural services of Mr. Frank J. Helme, 190 Montague street, Borough of Brooklyn, for preparing the plans and specifications for the buildings as indicated below, with an estimate of the cost of each:

No.	Exact Title of the Corporate Stock Authorized.	Chargeable to D. P. C. Building Fund.	Estimated Cost of Building.
1	For the acquisition of a site and the construction of a new hospital to replace the present Cumberland Street Hospital, Borough of Brooklyn.....	C. C. H.— 1A	$425,000 00
2	For the construction and equipment of a dormitory for male employees, Metropolitan Hospital, Blackwells Island	C. C. H.—33H	100,000 00
3	For the construction and equipment of a dormitory for female employees, City Hospital, Blackwells Island	C. C. H.—35A	50,000 00
4	For the construction and equipment of an addition to bakery, Kings County Hospital.....	C. C. H.—39M	25,000 00
5	For the construction and equipment of an extension to the Psychopathic Ward, Kings County Hospital	C. C. H.—39L	75,000 00
6	For the construction and equipment of a staff house, Kings County Hospital.....	C. C. H.—39K	100,000 00
7	For the construction of sewer mains, Kings County Hospital	C. C. H.—39J	6,000 00
8.	For the purchase and installtion of electric feeders for power and light, Kings County Hospital.....	C. C. H.—39G	15,000 00
9	For an extension to main heating tunnel, Kings County Hospital	C. C. H.—39H	17,000 00
10	For the erection and equipment of an addition to the heating and power plant, Kings County Hospital..	C. C. H.—39F	45,000 00
11	For the construction and equipment of a laundry plant, Randalls Island.....	C. C. H.—40D	100,000 00
12	For the construction and equipment of a boiler house and heating plant, Randalls Island.....	C. C. H.—40C	150,000 00

Trusting that you will take prompt and favorable action on this request, I am

Respectfully yours, M. J. DRUMMOND, Commissioner.

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

To the Board of Estimate and Apportionment:

Gentlemen—On March 18, 1912, the Commissioner of Charities requested approval of twelve forms of final contracts proposed to be entered into with Frank J. Helmle, as architect, for the preparation of complete plans, specifications, etc., and supervision for the erection and construction of various buildings and other improvements under the jurisdiction of the Department of Public Charities.

The contracts and appropriations against which the expenditures are to be charged are as follows:

(1) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the construction of the proposed new Cumberland Street Hospital. The expenditure is to be paid from the unencumbered balance of $356,222.30 (as of March 25, 1912), in the corporate stock fund entitled "C. C. H.—1A, Cumberland Street Hospital, Acquisition of Site and Erection of Building." The appropriation was approved in the sum of $425,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 31, 1911.

(2) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and equipment of Dormitory for male employees, Metropolitan Hospital, Blackwells Island. The expenditure is to be paid from the unencumbered balance of $98,459.54 (as of March 25, 1912) in the corporate stock fund entitled "C. C. H.—33H, Department of Public Charities, Construction and Equipment of Dormitory for Male Employees, Metropolitan Hospital." The appropriation was approved in the sum of $100,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(3) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and equipment of dormitory for female employees, City Hospital, Blackwells Island. The expenditure is to be paid from the unencumbered balance of $49,523.82 (as of March 25, 1911) in the corporate stock fund entitled "C. C. H.—35A, Department of Public Charities, Construction and Equipment of Dormitory for Female Employees, City Hospital." The appropriation was approved in the sum of $50,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(4) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the construction of the proposed addition to bakery, Kings County Hospital. The expenditure is to be paid from the unencumbered balance of $24,761.90 (as of March 25, 1911) in the corporate stock fund entitled "C. C. H.-39M, Department of Public Charities, Construction and Equipment of Addition to Bakery, Kings County Hospital." The appropriation was approved in the sum of $25,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(5) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and equipment of extension to Psychopathic Ward, Kings County Hospital. The expenditure is to be paid from the unencumbered balance of $74, 285.12 (as of March 25, 1912) in the corporate stock fund entitled "C. C. H.—39L, Department of Public Charities, Construction and Equipment of Extension to Psychopathic Ward, Kings County Hospital." The appropriation was approved in the sum of $75,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(6) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and equipment of a staff house for the Kings County Hospital. The expenditure is to be paid from an unencumbered balance of $99,047.62 (as of March 25, 1912) in the corporate stock fund entitled "C. C. H.—39K, Department of Public Charities, Construction and Equipment of Staff House, Kings County Hospital." The appropriation was approved in the sum of $100,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(7) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction of sewer mains, Kings County Hospital. The expenditure is to be paid from the unencumbered balance of $5,942.86 (as of March 25, 1912) in the corporate stock fund entitled "C. C. H.—39 J, Department of Public Charities, Construction of Sewer Mains, Kings County Hospital." The appropriation was approved in the sum of $6,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(8) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed installation of Electric Feeders for Power and Light, Kings County Hospital. The expenditure is to be paid from the unencumbered balance of $14,857.14 (as of March 25, 1911) in the corporate stock fund entitled "C. C. H.—39G, Department of Public Charities, Installation of Electric Feeders for Power and Light, Kings County Hospital." The appropriation was approved in the sum of $15,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(9) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed extension to Main Heating Tunnel, Kings County Hospital. The expenditure is to be paid from unencumbered balance of $16,838.10 (as of March 25, 1912), in the corporate stock fund entitled "C. C. H.—39H, Department of Public Charities. Extension to Main Heating Tunnel, Kings County Hospital." The appropriation was approved in the sum of $17,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(10) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the construction of the proposed addition to Heating and Power Plant, Kings County Hospital. The expenditure is to be paid from the unencumbered balance of $44,571.44 (as of March 25, 1912), in the corporate stock fund entitled "C. C. H.—39F, Department of Public Charities, Addition to Power Plant, Kings County Hospital." The appropriation was approved in the sum of $45,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(11) Final contract for the preparation of complete plans, specifications, etc.,

and the supervision of the proposed construction and equipment of Laundry Plant, Randalls Island. The expenditure is to be paid from the unencumbered balance of $99,047.62 (as of March 25, 1912), in the corporate stock fund entitled "C. C. H.—40D, Department of Public Charities, Construction and Equipment of Laundry Plant, Randalls Island." The appropriation was approved in the sum of $100,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

(12) Final contract for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and equipment of Boiler House and Heating Plant, Randalls Island. The expenditure is to be paid from the unencumbered balance of $148,027.44 (as of March 25, 1912), in the corporate stock fund entitled "C. C. H.—40C. Department of Public Charities, Construction and Equipment of Boiler House and Heating Plant, Randalls Island." The appropriation was approved in the sum of $150,000 by the Board of Estimate and Apportionment on July 17, 1911, and concurred in by the Board of Aldermen on July 25, 1911.

The proposed compensation fixed in each contract is reasonable. The forms of contracts are the same as those prepared by the Corporation Counsel for final architects' contracts.

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 its resolution adopted on July 17, 1911, as amended on August 31, 1911, hereby approves of twelve forms of final contracts for the services of Frank J. Helmle, as Architect, for the preparation of complete plans, specifications, etc., and the supervision of the proposed construction and erection of various buildings and other improvements under the jurisdiction of the Department of Public Charities; the compensation of each contract to be as hereinafter set forth, as follows:

(1) Proposed new hospital to replace the present Cumberland Street Hospital, Borough of Brooklyn, at a fee of five per cent. (5%) of the cost of the construction work, plus an additional and cumulative compensation of two and one-half (2½%) per cent. of the total cost of the heating and ventilating work, plumbing, electrical and refrigerating work, power plant and apparatus, appliances, appurtenances, fixtures and equipment, less the sum paid the Architect under the provisions of the preliminary contract, estimated approximately at fifteen thousand seven hundred and fifty dollars and one cent ($15,750.01); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—1A, Department of Public Charities, Cumberland Street Hospital, Brooklyn, Acquisition of Site and Erection of Building."

(2) Proposed construction and equipment of Dormitory for male employees, Metropolitan Hospital, Blackwells Island, at a fee of five (5%) per cent. of the cost of the construction work, less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at three thousand eight hundred and nine dollars and fifty-three cents ($3,809.53); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—33H, Department of Public Charities, Construction and Equipment of Dormitory for Male Employees, Metropolitan Hospital, Blackwells Island."

(3) Proposed construction and equipment of dormitory for female employees, City Hospital, Blackwells Island, at a fee of five per cent. (5%) of the total cost of the work, less the sum paid the architect, under the provisions of the preliminary contract, estimated approximately at one thousand nine hundred and four dollars and seventy-eight cents ($1,904.78); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—35A, Department of Public Charities, Construction and Equipment of Dormitory for Female Employees, City Hospital."

(4) Proposed addition to bakery, Kings County Hospital, at a fee of five (5%) per cent. of the total cost of the work, plus an additional and cumulative compensation of two and one-half per cent. (2½%) of the total cost of the heating and ventilating work, plumbing, electrical and refrigerating work, power plant and apparatus, appliances, fixtures and equipment, less the sum paid the architect, under the provisions of the preliminary contract, estimated approximately at one thousand and forty-four dollars and sixty-four cents ($1,044.64); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—39M, Department of Public Charities, Construction and Equipment of Addition to Bakery, Kings County Hospital."

(5) Proposed construction and equipment of extension to Psychopathic Ward, Kings County Hospital, at a fee of five per cent. (5%) of the total cost of the work, plus an additional and cumulative compensation of two and one-half per cent. (2½%) of the total cost of the heating and ventilating work, plumbing, electrical and refrigerating work, power plant and apparatus, appliances, fixtures and equipment, less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at three thousand seven hundred and twenty-six dollars and twenty cents ($3,726.20); the cost of the contract to be paid from the corporate stock fund entitled "C. C. H.—39L, Department of Public Charities, Construction and Equipment of Extension to Psychopathic Ward, Kings County Hospital."

(6) Proposed construction and equipment of a staff house for Kings County Hospital, at a fee of five per cent. (5%) of the cost of the work, plus an additional and cumulative compensation of two and one-half per cent. (2½%) of the total cost of the heating and ventilating work, plumbing, electrical and refrigerating work, power plant and apparatus, appliances, fixtures and equipment, less the sum paid the architect, under the provisions of the preliminary contract, estimated approximately at four thousand two hundred and ninety-two dollars and eighty-six cents ($4,292.86); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—39K, Department of Charities, Construction and Equipment of Staff House, Kings County Hospital."

(7) Proposed construction of sewer mains, Kings County Hospital, at a fee of five (5%) per cent. of the cost of the work, less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at two hundred and twenty-eight dollars and fifty-eight cents ($228.58); the cost of the work to be paid from the corporate stock fund entitled "C. C. H.—39J, Department of Public Charities, Construction of Sewer Mains, Kings County Hospital."

(8) Proposed installation of electric feeders for power and light, Kings County Hospital, at a fee of five per cent. (5%) of the cost of the work, plus an additional and cumulative compensation of two and one-half (2½%) per cent. of the total cost of the heating and ventilating work, plumbing work, electrical and refrigerating work, power plants, and apparatus, appliances, appurtenances, fixtures and equipment, less the sum paid the architect, under the provisions of the preliminary contract, estimated approximately at nine hundred and three dollars and sixty-six cents ($903.66); the cost of the contract to be paid from the corporate stock fund entitled "C. C. H.—39G, Department of Public Charities, Installation of Electric Feeders for Power and Light, Kings County Hospital."

(9) Proposed extension to main heating tunnel, Kings County Hospital, at a fee of five per cent. (5%) less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at six hundred and forty-seven dollars and sixty-two cents ($647.62); the cost of the contract to be paid from the corporate stock fund entitled "C. C. H.—39H, Department of Charities, Extension to Main Heating Tunnel, Kings County Hospital."

(10) Proposed addition to heating and power plant, Kings County Hospital, at a fee of five per cent. (5%) plus an additional and cumulative compensation of two and one-half per cent. (2½%) of the total cost of the heating and ventilating work, plumbing work, electric and refrigerating work, power plants and apparatus, appliances, appurtenances, fixtures and equipment, less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at two thousand, seven hundred and ten dollars and ninety-seven cents ($2,710.97); the cost of the contract to be paid from the corporate stock fund entitled "C. C. H.—39F, Department of Charities, Addition to Power Plant, Kings County Hospital."

(11) Proposed construction and equipment of laundry plant, Randalls Island, at a fee of five (5%) per cent. plus an additional and cumulative compensation of two and one-half (2½%) per cent. of the total cost of the heating and ventilating work, plumbing work, electrical and refrigerating work, power plants and apparatus, appliances, appurtenances, fixtures and equipment, less the sum paid the architect under the provisions of the preliminary contract, estimated approximately at five thousand and eighty-three dollars and thirty-four cents ($5,083.34); the cost of this contract to be paid from the corporate stock fund entitled, "C. C. H.—40D, Department of Public Charities, Construction and Equipment of Laundry Plant, Randalls Island."

(12) Proposed construction and equipment of a boiler house and heating plant, Randalls Island, at a fee of five (5%) per cent. of the cost of the work, plus an additional and cumulative compensation of two and one-half (2½%) per cent. of the total cost of the heating and ventilating work, plumbing, electrical and refrigerating work, power plants and apparatus, appliances, appurtenances, fixtures and equipment, less the sum paid the architect, under the provisions of the preliminary contract, estimated approximately at seven thousand two hundred and seventy-three dollars and eighty-two cents ($7,273.82); the cost of this contract to be paid from the corporate stock fund entitled "C. C. H.—40C, Department of Public Charities. Construction and Equipment of Boiler House and Heating Plant, Randalls Island."

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education relative to, and report of the Comptroller recommending, the acquisition, at private sale, at a price not exceeding $25,000, of property on the westerly side of Mangin street, distant 125 feet southerly from the southwest corner of Mangin street and East Houston street, Borough of Manhattan, as a site for school purposes:

(On March 21, 1912, a communication of the Board of Education requesting the acquisition of the above property was referred to the Comptroller.)

To the Board of Education:

The Committee on Sites respectfully reports that on February 20, 1912, The City of New York acquired title to a plot of land approximately 155 feet by 100 feet on the westerly side of Mangin street, between Stanton and East Houston streets, Borough of Manhattan, for school purposes. This plot of land is not large enough for a building of sufficient size to provide the accommodations needed for this immediate vicinity, and when this Committee recommended its selection it was with the intention of recommending the acquisition of an additional plot 50 feet by 100 feet adjoining the same on the north as soon as the necessary arrangements could be made for the purchase thereof. Your Committee is now informed that it is possible to purchase this additional property, and recommends that the same be selected for school purposes.

The following resolutions are submitted for adoption:

Resolved, That the Board of Education hereby selects and determines as a site for school purposes the following-described lands and premises on Mangin street, between Stanton and East Houston streets, in Local School Board District No. 4, Borough of Manhattan, the assessed valuation of which, as shown by the books of record on file in the Department of Taxes and Assessments, is $35,000:

Beginning at a point formed by the intersection of the westerly line of Mangin street with the northerly line of lands of The City of New York, and running thence westerly along said lands of The City of New York 100 feet; thence northerly and parallel with Mangin street 50 feet; thence easterly and parallel, or nearly so, with East Houston street 100 feet, to a point on the westerly line of Mangin street distant 125 feet southerly from East Houston street; thence southerly along the westerly line of Mangin street 50 feet to said lands of The City of New York, the point or place of beginning, be the said several dimensions more or less.

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to take such action as may be necessary and proper for the acquisition of the lands and premises above described.

A true copy of report and resolutions adopted by the Board of Education on March 13, 1912. A. E. PALMER, Secretary, Board of Education.

City of New York, Department of Finance, Comptroller's Office, April 12, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting of your Board held March 21, 1912, there was referred to the Comptroller for consideration and report, a communication from the Secretary of the Board of Education transmitting certified copies of resolutions adopted by said Board on March 13, 1912, relative to the acquisition of a plot of ground on the westerly side of Mangin street, between Stanton and East Houston streets. in the Borough of Manhattan.

At a meeting of your Board held July 17, 1911, corporate stock to the amount of $2,512,740 was authorized as a lump sum appropriation for the acquisition of sites and construction and equipment of buildings, the amount for each item to be fixed at a subsequent date by the Board of Estimate and Apportionment. This resolution was concurred in by the Board of Aldermen on July 25, 1911. Included in this appropriation was an item of $100,000 for a site in the vicinity of Williamsburg Bridge.

On January 4, 1912, your Board authorized the purchase at private sale of a plot of ground 155 feet in width by 100 feet in depth. It is necessary, however, to secure an additional parcel of ground in order to make the plot adequate for the construction of a school building.

The premises mentioned in the resolution of the Board of Education are located on the westerly side of Mangin street, and consist of a plot of ground 50 feet in width by 100 feet in depth, distant 125 feet southerly from the southwest corner of Mangin street and East Houston street, on which there is situated a small brick building. The owners of the premises, however, have a beam right privilege in the five story brick building which is owned by The City of New York.

The original asking price demanded for the premises was $27,500, but after negotiation by the Comptroller, the premises may be secured for the sum of $25,000.

The price being reasonable and just, I respectfully recommend that your Board approve of the selection of the following described premises for use of the Department of Education:

All those certain lots, pieces or parcels of land, with the buildings and improvements thereon erected, situate, lying and being in the 11th Ward of The City of New York (Borough of Manhattan), and which, taken together, are bounded and described as follows:

Beginning at a point on the westerly side of Mangin street distant 125 feet southerly from the corner formed by the intersection of the westerly side of Mangin street with the southerly side of East Houston street; thence running southerly along the said westerly side of Mangin street 50 feet; thence westerly, parallel with East Houston street, 100 feet to the centre line of the block between Goerck and Mangin streets; thence northerly, parallel with Mangin street, 50 feet, and along the centre line of the block between Goerck and Mangin streets; and thence easterly, parallel with East Houston street, 100 feet, to the point or place of beginning, be the said several dimensions more or less; together with all the right, title and interest, if any, of the owners, of, in and to the street in front thereof to the centre thereof; being part and parcel of the premises conveyed by Harriet E. Parry and others to Julius Rayner, by deed dated the 26th October, 1887, and recorded in the office of the Register of the City and County of New York in Liber 2096 of Conveyances, page 72, on the 1st day of November, 1887.

—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the same at private sale, at a price not exceeding $25,000, 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 Board of Education of the following described property on the westerly side of Mangin street, distant 125 feet southerly from the southwest corner of Mangin street and East Houston street, Borough of Manhattan, as a site for school purposes:

All those certain lots, pieces or parcels of land, with the buildings and improvements thereon erected, situate, lying and being in the 11th Ward of The City of New York (Borough of Manhattan), and which, taken together, are bounded and described as follows:

Beginning at a point on the westerly side of Mangin street distant 125 feet southerly from the corner formed by the intersection of the westerly side of Mangin street with the southerly side of East Houston street; thence running southerly along the said westerly side of Mangin street 50 feet; thence westerly parallel with East Houston street 100 feet to the centre line of the block between Goerck and Mangin streets; thence northerly, parallel with Mangin street, 50 feet and along the centre line of the block between Goerck and Mangin streets; and thence easterly, parallel with East Houston street, 100 feet to the point or place of beginning, be the said several dimensions more or less; together with all the right, title and interest, if any, of the owners of, in and to the street in front thereof to the centre thereof; being part and parcel of the premises conveyed by Harriet E. Parry and others to Julius Rayner, by deed dated the 26th

October, 1887, and recorded in the office of the Register of the City and County of New York in Liber 2096 of Conveyances, page 72, on the 1st day of November, 1887.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same at private sale, at a price not exceeding twenty-five thousand dollars ($25,000), said contract to be submitted to the Corporation Counsel for approval as to form; said sum of twenty-five thousand dollars ($25,000) to be paid out of the two million five hundred and twelve thousand seven hundred and forty dollars ($2,512,740) corporate stock issue authorized July 17, 1911, for the acquisition of school sites, the construction and equipment of school buildings, etc., as set forth therein.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following report of the Comptroller recommending the acquisition, at private sale, at a price not exceeding $9,000, of property on the northerly side of South 3d street, distant 180 feet easterly from the northeasterly corner of Driggs avenue and South 3d street, Brooklyn, as a site for school purposes:

(On March 21, 1912, a resolution of the Board of Education relative to the acquisition of a plot of land on South 3d street and Driggs avenue, adjoining Public School 50, Brooklyn, as a site for school purposes, was referred to the Comptroller.)

(On March 28, 1912, on the recommendation of the Comptroller, the Board adopted two resolutions authorizing the acquisition of two parcels of land within the above area.)

(The resolution of the Board of Education referred to the Comptroller on March 21, 1912, and mentioned above, is printed in the Financial Minutes of the meeting held March 28, 1912, at pages 1509-1510 of the pamphlet minutes.)

City of New York, Department of Finance, Comptroller's Office, April 12, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting of your Board held March 21, 1912, there was referred to the Comptroller certified copy of a resolution adopted by the Board of Education on March 13, 1912, with reference to the selection of a school site on the northerly side of South 3d street, between Driggs avenue and Roebling street, Borough of Brooklyn.

On July 17, 1911, your Board adopted a resolution authorizing an issue of corporate stock in a lump sum appropriation of $695,000, which amount provided for a site in the vicinity of South 3d street and Driggs avenue, Borough of Brooklyn. This resolution was concurred in by the Board of Aldermen on July 25, 1911.

After thorough investigation it has been determined that the premises selected by the Board of Education on the northerly side of South 3d street, between Driggs avenue and Roebling street, being 305 feet in width with a depth on each side of 120 feet, are the most desirable for the purposes aforesaid.

The premises are in different ownerships and will have to be acquired as negotiations progress.

Included within this tract is a parcel of property on the northerly side of South 3d street, distant 180 feet easterly from the northeasterly corner of Driggs avenue and South 3d street, Borough of Brooklyn, having a frontage of 25 feet on South 3d street with a depth of 120 feet, together with an "L" 20 by 25 westerly and adjoining thereto, and containing in the aggregate 3,500 square feet. The premises are to be taken subject to the usual restrictions against nuisances, which do not militate against the erection of a school building.

The original price demanded by the owners was $11,000, but after negotiation by the Comptroller the property may be secured for the sum of $9,000.

The price being reasonable and just, I respectfully recommend that your Board approve of the purchase of the following-described premises for use of the Department of Education:

All that certain lot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of South 3d street, distant 180 feet easterly from the corner formed by the intersection of the easterly side of Driggs avenue with the northerly side of South 3d street; running thence northerly and parallel with Driggs avenue and along the land of The City of New York 100 feet; thence westerly and parallel with South 3d street and along the land of The City of New York 25 feet; thence northerly and parallel with Driggs avenue 20 feet; thence easterly and parallel with South 3d street 50 feet; thence southerly and parallel with Driggs avenue 120 feet to the northerly side of South 3d street; and thence westerly along the said northerly side of South 3d street 25 feet to the point or place of beginning; said property being known by the street number 183 South 3d street, Borough of Brooklyn, City of New York; together with all the right, title and interest, if any, of the owners of said premises, of, in and to the street in front thereof to the centre thereof; subject to the covenants contained in Liber 91 of Conveyances, page 532, recorded in the Register's office of Kings County, which states that neither the owner, nor his heirs or assigns, shall or will at any time hereafter erect or permit upon any part of the said lot, any slaughter house, smith shop, forge, furnace, steam engine, brass foundry, nail or iron factory, or any manufactory of gunpowder, glue, varnish, vitriol, ink or turpentine, or for the tanning, dressing or preparing of skins, hides or leather, or any brewery, distillery or other noxious or dangerous trade or business.

—and authorize the Comptroller to enter into contract for the acquisition of the same, at private sale, at a price not exceeding $9,000, 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 Board of Education of the following described property located on the northerly side of South 3d street, distant 180 feet easterly from the northeasterly corner of Driggs avenue and South 3d street, Borough of Brooklyn, as a site for school purposes:

All that certain lot, piece or parcel of land situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of South 3d street, distant 180 feet easterly from the corner formed by the intersection of the easterly side of Driggs avenue with the northerly side of South 3d street; running thence northerly and parallel with Driggs avenue and along the land of The City of New York, 100 feet; thence westerly parallel with South 3d street and along the land of The City of New York 25 feet; thence northerly parallel with Driggs avenue 20 feet; thence easterly and parallel with South 3d street 50 feet; thence southerly parallel with Driggs avenue 120 feet to the northerly side of South 3d street; and thence westerly along the said northerly side of South 3d street 25 feet to the point or place of beginning; said property being known by the street number 183 South 3d street, Borough of Brooklyn, City of New York; together with all the right, title and interest, if any, of the owners of said premises of, in and to the street in front thereof to the centre thereof; subject to the covenants contained in Liber 91 of Conveyances, page 532, recorded in the Register's office of Kings County, which states that neither the owner, nor his heirs or assigns, shall or will at any time hereafter erect or permit upon any part of the said lot, any slaughter house, smith shop, forage, furnace, steam engine, brass foundry, nail or iron factory, or any manufactory of gunpowder, glue, varnish, vitriol, ink or turpentine, or for the tanning, dressing or preparing of skins, hides or leather, or any brewery, distillery or other noxious or dangerous trade or business.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same, at private sale, at a price not exceeding nine thousand dollars ($9,000), said contract to be submitted to the Corporation Counsel for approval as to form.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following report of the Comptroller recommending that the resolution adopted March 7, 1912, authorizing the acquisition, at private sale, at a price not exceeding $3,000, of property on the southerly side of Main street, 250 feet easterly from the southeast corner of Main street and Irving place, Corona, Borough of Queens, for the use of the Fire Department, be amended by changing the technical description of said property:

City of New York, Department of Finance, Comptroller's Office, April 15, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—Under date of March 7, 1912, your Board adopted a resolution, known as No. 32 on the Calendar under the head of Financial Matters, authorizing the acquisition of property, at a point on the southerly line of Main street distant 250 feet easterly (measured along said southerly side of Main street), from the southeasterly corner of Main street and Irving place, etc., situated at Corona, formerly West Flushing, Town of Newtown, Borough of Queens, for use of the Fire Department.

In the description of the above-mentioned property appears the clause, "being the same premises conveyed to the Long Island Railroad Company by Varnum S. Henderson and wife by deed dated July 17, 1904, and recorded in Queens County Clerk's office in Liber 1032 of Deeds, page 203, July 27, 1894." The date of the deed should read July 17, 1894.

I therefore respectfully recommend that the resolution of March 7, 1912, be amended by changing said clause to read, being the same premises conveyed to the Long Island Railroad Company by Varnum S. Henderson and wife by deed dated July 17, 1894, and recorded in Queens County Clerk's office in Liber 1032 of Deeds, page 203, July 27, 1894. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment March 7, 1912, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the Fire Commissioner of property on the southerly side of Main street, distant 250 feet easterly from the southeast corner of Main street and Irving place, Corona, Borough of Queens, for the use of the Fire Department, bounded and described as follows:

"All those two certain lots of land in the 2d Ward, Borough of Queens, situate at Corona (formerly West Flushing), Town of Newtown, County of Queens and State of New York, known as lots 1929 and 1930 on a certain map filed in the office of the Clerk of the County of Queens entitled 'Hitchcock's Second Plan, Homes for the People of West Flushing,' and which, taken together, are bounded and described as follows:

"Beginning at a point on the southerly line of Main street distant 250 feet easterly (measured along said southerly side of Main street) from the southeasterly corner of Main street and Irving place; running thence southerly parallel with Irving place 100 feet; thence easterly parallel with Main street 50 feet; thence northerly parallel with Irving place 100 feet to said southerly side of Main street; and thence westerly along the same 50 feet to the point of beginning; together with all the right, title and interest, if any, of the owner, in and to so much of said Main street (to the centre thereof) as lies in front of said lots; said lots taken together forming the easterly half part of plot 126 on a certain map entitled 'Map of Valuable Building Lots at West Flushing, situate upon Newtown avenue and the railroad, surveyed and laid out by R. Graves, City Surveyor,' and filed in said Clerk's office September 24, 1853; being the same premises conveyed to the Long Island Railroad Company by Varnum S. Henderson and wife by deed dated *July* 17, 1904, and recorded in Queens County Clerk's office in Liber 1032 of Deeds, page 203, July 27, 1894.

—"and authorizes the Comptroller to enter into contract for the acquisition of the same, at private sale, at a price not exceeding three thousand dollars ($3,000), said contract to be submitted to the Corporation Counsel for approval as to form."

—be and the same is hereby amended by striking therefrom the date "*July* 17, 1904," in the technical description, and inserting in place thereof the date "*July* 17, 1894."

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following report of the Comptroller recommending the acquisition, at private sale, of property on the northerly side of West 123d street, between 7th and 8th avenues, Borough of Manhattan, for the use of the Police Department, at prices not exceeding $20,000 for Parcel No. 1, $15,000 for Parcel No. 2 and $15,000 for Parcel No. 3:

City of New York, Department of Finance, Comptroller's Office, April 12, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At a meeting held February 15, 1912, your Board amended a resolution adopted June 3, 1910, by reducing the total amount released for the erection of a stable for Traffic Squad, West 30th street, Manhattan, from $190,000 to $5,000, and by adding, under the title "C—PD 2A, Police Department, Fund for Sites and Buildings," the following item: "To provide for the acquisition of land and building and a station house for a new precinct, to be formed from part of the 36th Precinct and part of the 43d Precinct, Borough of Manhattan, $185,000."

In connection therewith I directed that an examination of the available sites be made by the Appraiser of Real Estate of this Department in company with the Police Commissioner, and it was finally determined that the plot of ground, 58 feet 4 inches in width by about 100 feet in depth, on the northerly side of West 123d street, between 7th and 8th avenues, Borough of Manhattan, is the most suitable for the purpose. The premises are in three ownerships.

Parcel No. 1 consists of a plot of ground, 25 feet in width by 100 feet 11 inches in depth, with two substantial buildings thereon. There are encroachments of the building on these premises but the improvements are to be destroyed for the erection of a police station and therefore may be disregarded. The owner is not in possession of a strip of land along the northerly line of the premises, from 7 to 9 inches in width, but this fact does not affect the market value of the same. The original price demanded for this property was $22,000, but after negotiation by the Comptroller it may be secured for the sum of $20,000.

Parcel No. 2 consists of a plot of ground, 16 feet 8 inches in width with a depth of 100 feet 11 inches, having a substantial building erected thereon. There are encroachments of the building on these premises but the improvements are to be destroyed for the erection of a police station and therefore may be disregarded. The original asking price for these premises was $16,000, but after negotiation they may be secured for the sum of $15,000.

Parcel No. 3 consists of a plot of ground, 16 feet 8 inches in width with a depth of 100 feet 11 inches, having a substantial building erected thereon. The original asking price demanded by the owner was $16,500, but after negotiation the same may be purchased for $15,000.

The prices being reasonable and just, I respectfully recommend that your Board approve of the selection of the following described premises for use of the Police Department:

Parcel No. 1.

All that certain lot, piece or parcel of land, with the improvements thereon erected, situate in the 12th Ward, Borough of Manhattan, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of 123d street, distant 400 feet easterly from the northeasterly corner of 8th avenue and 123d street; running thence northerly and parallel with 8th avenue 100 feet 11 inches to the centre line of the block; thence easterly along the centre line of the block 25 feet; thence southerly and parallel with 8th avenue 100 feet 11 inches to the northerly side of 123d street; thence westerly along the northerly side of 123d street 25 feet to the point or place of beginning; be the said several dimensions more or less; together with all the right, title and interest, if any, of the owner, of, in and to the street in front thereof to the centre thereof; being known by the street numbers 229-231 West 123d street; subject to the fact that the porch and easterly wall of the building on the premises encroaches on the building adjoining on the east; also subject to the stoop and easterly wall of the building on the premises adjoining on the east encroaching on these premises; subject to the foundation of the westerly wall of the building on the premises adjoining on the east encroaching on these premises; subject to the owner not being in possession of a strip of land being part of these premises along the northerly line thereof, extending from 7 to 9 inches in width.

—and authorize the Comptroller to enter into contract for the acquisition of the same at private sale, at a price not exceeding $20,000, said contract to be submitted to the Corporation Counsel for his approval as to form. Also

Parcel No. 2.

All that lot or parcel of land, with the buildings and improvements thereon, situate, lying and being in the City, County and State of New York, bounded and described as follows:

Beginning at a point on the northerly side of 123d street distant 383 feet and

4 inches easterly from the intersection of the easterly side of 8th avenue and the northerly side of 123d street; running thence northerly and parallel with 8th avenue, and part of the way through a party wall, 100 feet and 11 inches to the centre line of the block, thence easterly and parallel with 123d street 16 feet and 8 inches; thence southerly and again parallel with 8th avenue 100 feet and 11 inches to the northerly side of 123d street; thence westerly and along the northerly side of 123d street 16 feet and 8 inches to the point of beginning, be said several dimensions and distances more or less; together with all the right, title and interest, if any, of the owner, of, in and to the street in front thereof to the centre thereof; said premises being known as 233 West 123d street; subject to the stoop and easterly wall of the building on the above described premises encroaching on the premises adjoining on the east.

—and authorize the Comptroller to enter into contract for the acquisition of the same at private sale, at a price not exceeding $15,000, said contract to be submitted to the Corporation Counsel for his approval as to form. Also

Parcel No. 3.

All that certain lot, piece or parcel of land, with the improvements thereon, situate, lying and being in the 12th Ward of the City of New York, known as 235 West 123d street, and bounded and described as follows:

Beginning at a point on the northerly side of 123d street, distant 366 feet 8 inches easterly from the corner formed by the intersection of the northerly side of 123d street with the easterly side of 8th avenue, and at or immediately in front of the centre of a party wall standing partly on the premises hereby conveyed and partly on those adjoining on the westerly side thereof; and running thence northerly along the centre of said party wall so far as the same extends and beyond, and parallel, or nearly so, with 8th avenue, 100 feet 11 inches to the centre line of the block between 123d and 124th streets; thence easterly along said centre line 16 feet 8 inches to a point opposite the centre of another party wall standing partly on the premises hereby conveyed and partly on those adjoining on the easterly side thereof; thence southerly part of the way through the centre of said party wall and parallel or nearly so with 8th avenue 100 feet 11 inches to the northerly side of 123d street; and thence westerly along the same 16 feet 8 inches to the point or place of beginning; together with all the right, title and interest, if any, of the owner, of, in and to the street in front thereof to the centre thereof; being the same premises conveyed to Edward Barnes by Frederick Aldhous and wife by deed dated June 16, 1884, and recorded in the office of the Register of the City and County of New York in Liber 1823 of Conveyances, page 75, on the 16th day of June, 1884.

—and authorize the Comptroller to enter into contract for the acquisition of the same at private sale, at a price not exceeding $15,000, 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 Police Commissioner of the following-described property on the northerly side of West 123d street, between 7th and 8th avenues, Borough of Manhattan, for the use of the Police Department:

Parcel No. 1.

All that certain lot, piece or parcel of land, with the improvements thereon erected, situate in the 12th Ward, Borough of Manhattan, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of 123d street, distant 400 feet easterly from the northeasterly corner of 8th avenue and 123d street; running thence northerly and parallel with 8th avenue 100 feet 11 inches to the centre line of the block; thence easterly along the centre line of the block 25 feet; thence southerly and parallel with 8th avenue 100 feet 11 inches to the northerly side of 123d street; thence westerly along the northerly side of 123d street 25 feet to the point or place of beginning; be the said several dimensions more or less; together with all the right, title and interest, if any, of the owner of, in and to the street in front thereof to the centre thereof; being known by the street numbers 229-231 West 123d street; subject to the fact that the porch and easterly wall of the building on the premises encroaches on the building adjoining on the east; also subject to the stoop and easterly wall of the building on the premises adjoining on the east encroaching on these premises; subject to the foundation of the westerly wall of the building on the premises adjoining on the east encroaching on these premises; subject to the owner not being in possession of a strip of land being part of these premises along the northerly line thereof, extending from 7 to 9 inches in width.

—and authorizes the Comptroller to enter into a contract for the acquisition of the same at private sale, at a price not exceeding twenty thousand dollars ($20,000), said contract to be submitted to the Corporation Counsel for approval as to form. Also

Parcel No. 2.

All that lot or parcel of land, with the buildings and improvements thereon, situate, lying and being in the City, County and State of New York, bounded and described as follows:

Beginning at a point on the northerly side of 123d street distant 383 feet and 4 inches easterly from the intersection of the easterly side of 8th avenue and the northerly side of 123d street; running thence northerly and parallel with 8th avenue, and part of the way through a party wall, 100 feet and 11 inches to the centre line of the block; thence easterly and parallel with 123d street, 16 feet and 8 inches; thence southerly and again parallel with 8th avenue 100 feet and 11 inches to the northerly side of 123d street; thence westerly and along the northerly side of 123d street 16 feet and 8 inches to the point of beginning, be said several dimensions and distances more or less; together with all the right, title and interest, if any, of the owner of, in and to the street in front thereof to the centre thereof; said premises being known as No. 233 West 123d street; subject to the stoop and easterly wall of the building on the above described premises encroaching on the premises adjoining on the east,

—and authorizes the Comptroller to enter into a contract for the acquisition of the same at private sale, at a price not exceeding fifteen thousand dollars ($15,000), said contract to be submitted to the Corporation Counsel for approval as to form. Also

Parcel No. 3.

All that certain lot, piece or parcel of land, with the improvements thereon, situate, lying and being in the 12th Ward of The City of New York, known as No. 235 West 123d street, and bounded and described as follows:

Beginning at a point on the northerly side of 123d street, distant 366 feet 8 inches easterly from the corner formed by the intersection of the northerly side of 123d street with the easterly side of 8th avenue, and at or immediately in front of the centre of a party wall standing partly on the premises hereby conveyed and partly on those adjoining on the westerly side thereof; and running thence northerly along the centre of said party wall so far as the same extends and beyond, and parallel, or nearly so, with 8th avenue, 100 feet 11 inches to the centre line of the block between 123d and 124th streets; thence easterly along said centre line 16 feet 8 inches to a point opposite the centre of another party wall standing partly on the premises hereby conveyed and partly on those adjoining on the easterly side thereof; thence southerly part of the way through the centre of said party wall and parallel or nearly so with 8th avenue 100 feet 11 inches to the northerly side of 123d street; and thence westerly along the same 16 feet 8 inches to the point or place of beginning; together with all the right, title and interest, if any, of the owner of, in and to the street in front thereof to the centre thereof; being the same premises conveyed to Edward Barnes by Frederick Aldhous and wife by deed dated June 16, 1884, and recorded in the office of the Register of the City and County of New York in Liber 1823 of Conveyances, page 75, on the 16th day of June, 1884.

—and authorizes the Comptroller to enter into contract for the acquisition of the same at private sale, at a price not exceeding fifteen thousand dollars ($15,000), said contract to be submitted to the Corporation Counsel for approval as to form.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary presented the following communication from Arthur H. Walkley, a former employee in the office of the District Attorney of Kings County, requesting retirement, pursuant to the provisions of chapter 669 of the Laws of 1911, communication from the District Attorney, Kings County, relative thereto, and report of the Committee on Salaries and Grades recommending that said request be denied, for the reason that the Corporation Counsel, in an opinion dated March 22, 1912, advises that, under provisions of chapter 669 of the Laws of 1911, it is obvious that there is no power to retire a person no longer in the service of the City:

(On March 7, 1912, the above application was presented to the Board and referred to the said Committee; on March 21, 1912, a communication from the District Attorney of Kings County, referring to the application, and stating that Mr. Walkley's services as an employee in his office had ceased on December 31, 1911, was presented to the Board and referred to the Committee.)

February 19, 1912.

Hon. ALFRED E. STEERS, *President of the Borough of Brooklyn:*

Dear Sir—The undersigned herewith makes application for a pension under the provisions of chapter 669 of the Laws of 1911, having been in the employ of the County of Kings for a period of over thirty years, in the office of the District Attorney.

I submit herewith certificate of a physician certifying to my physical and mental incapacity. Respectfully yours,

ARTHUR H. WALKLEY, 387 Clinton Street, Brooklyn, N. Y.

February 19, 1912.

Hon. ALFRED E. STEERS, *President, Borough of Brooklyn:*

Dear Sir—In the matter of Mr. Arthur Walkley, I have to report that I examined him yesterday at my office and find him to be a man of about sixty-two years of age, heavily built, but with evidences of degenerative change in his heart muscle. He is also a sufferer from chronic rheumatism and there is a beginning disturbance in his nervous system which is manifested by fine tremors of the tongue and hands, a sufficient speech modification to make the voice tremulous. This latter condition probably had its beginning in a case of herpes zoster which he had some three years ago.

In my opinion his physical condition incapacitates him for the pursuit of regular office work to which he has been accustomed. Very truly yours,

JOHN J. A. O'REILLY, M. D., 397 Union Street, Brooklyn, N. Y.

District Attorney's Office, County of Kings, Brooklyn, New York, March 14, 1912.

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

Dear Sirs—The letter of your Assistant Secretary of the 13th inst. was received, stating that at a meeting of your Board held on the 7th inst. the application of Arthur Walkley, an employee in my office, for retirement, pursuant to chapter 669 of the Laws of 1911, was presented and referred to the Committee on Salaries and Grades for consideration and report.

This is the first communication of the kind which I have received and I do not know whether it calls for any statement from me. But, inasmuch as your letter states that the application in question is made by an employee of this office, I think it proper to state that the applicant in question is not now an employee in this office and has not been at any time since I have held the office, namely, January 1, 1912. He was an employee here prior to that date. Truly yours,

JAMES C. CROPSEY, District Attorney.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On February 19, 1912, Arthur H. Walkley, of No. 387 Clinton street, Brooklyn, made application for a pension, under the provisions of sections 165, 166 and 167 of the Greater New York Charter, as amended by chapter 669 of the Laws of 1911. In connection therewith we report as follows:

Mr. Walkley states that he was employed for more than thirty years in the office of the District Attorney of Kings County, and that he is physically incapacitated.

The District Attorney of Kings County states that Mr. Walkley's service as an employee in his office ceased on December 31, 1911, and that he has not been employed since in any capacity.

In an opinion to the Comptroller, dated March 22, 1912, the Corporation Counsel set forth the following:

"Chapter 669 of the Laws of 1911 authorizes 'the retirement from active service' of employees. The statute evidently assumes as a prerequisite to the power to retire, the occupation of an office or position by the person who is sought to be retired. If * * * applicants are no longer in the service, it is obvious that there is no power to act."

In view of the foregoing, we recommend that the application be denied.

Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting President of the Board of Aldermen, Select Committee.

The following resolution was offered:

Resolved, That the request of Arthur H. Walkley, of 387 Clinton street, Borough of Brooklyn, a former employee in the office of the District Attorney of Kings County, for a pension, pursuant to the provisions of chapter 669 of the Laws of 1911, be and the same is hereby *denied.*

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Committee on Salaries and Grades to the applicant, Arthur H. Walkley, and to the District Attorney, Kings County.

The Secretary presented the following communication from the Chief City Magistrate, First Division, requesting, communication from the President of the Woman's Municipal League of The City of New York, relative thereto, and report of the Committee on Salaries and Grades recommending, the establishment in the City Magistrates' Courts, First Division, of the following grades of positions:

	Per Annum.	No. of Incumbents.
Assistant Clerk, Office Chief City Magistrate.....	$2,200 00	1
Female Probation Officer, Women's Night Court.....	1,150 00	1
Typewriting Copyist	750 00	1

(On March 14, 1912, the request of the Chief City Magistrate for the establishment of the above grades of positions and a communication from the President of the Woman's Municipal League of The City of New York, urging the increase in salary of the Female Probation Officer, Women's Night Court, were referred to the above Committee.)

Board of City Magistrates, First Division, City of New York, 300 Mulberry Street, Manhattan, March 8, 1912.

The Board of Estimate and Apportionment, 277 Broadway, Manhattan:

Gentlemen—I hereby respectfully request the establishment of the following additional grades of positions in the City Magistrates' Courts, First Division:

Title.	Salary Rate.	Number of Incumbents.
Assistant Clerk, Office of the Chief City Magistrate..	$2,200 00	1
Female Probation Officer, Women's Night Court.....	1,150 00	1
One additional Typewriting Copyist.....	750 00	1

The establishing of these grades will be for the best interests of the Courts and will not necessitate any increased expenditure beyond the Budget appropriation for 1912 inasmuch as I have also this day in another communication requested a modification of the salary schedule for 1912. Very respectfully,

WILLIAM McADOO, Chief City Magistrate.

Woman's Municipal League of The City of New York, 46 East 29th Street, March 11, 1912.

Hon. WILLIAM J. GAYNOR, *Chairman, Committee on Estimate and Apportionment:*

Dear Sir—We understand that the question of an increase in salary of Probationary Officer of the Woman's Night Court will come before you on the 14th. We urgently request you to use your influence in securing this increase. We are very closely associated with Miss Alice Smith and have every opportunity to judge of the value of her work. It seems to us that she is absolutely unique and that it would be difficult for the City to over-estimate her great usefulness.

Trusting that you will see your way to adding as much as possible to her very small salary, I remain, Sincerely yours,

MARY A. HEWITT (Mrs. Edward Ringwood Hewitt), President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, March 20, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 8, 1912, the Chief City Magistrate of the First Division requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the following grades of positions:

	Rate Per Annum.	Number of Incumbents.
Assistant Clerk, Office of Chief City Magistrate.....	$2,200 00	1
Female Probation Officer, Women's Night Court.....	1,150 00	1
Typewriting Copyist	750 00	1

It is proposed to eliminate a position for a Clerk at $1,200 per annum, and substitute a Typewriting Copyist at $750, the balance of $450 to be used to increase the compensation of Jesse Bernhard, Assistant Clerk, from $2,000 to $2,200, and that of Miss Alice C. Smith, Probation Officer in the Women's Night Court, from $900 to $1,150 per annum.

The Chief City Magistrate states that there is more need of a Typewriting Copyist, at $750, than there is of a Clerk at $1,200.

Relative to the proposed increase of $250 for Miss Smith, he states the following:

> Miss Smith is the best woman in this work in our service and has a wide reputation among citizens not only here but in other parts of the country for her probationary work. She is a woman of unusual character and intelligence and if she left us it would be a distinct loss to the courts and the public. She receives $900 per annum from the City, and I am informed that a citizen who is interested in probationary work and knows of her qualifications for her position, voluntarily adds a few hundred dollars to her income. Miss Smith has stated to me that such contribution hurts her self respect, and she is considering an offer of employment by a civic society at a higher salary than that paid by the City. I have only been able to hold her by promising that we could get this increase.

Miss Smith was appointed Probation Officer on December 1, 1907, at her present rate of compensation, and is the only Probation Officer assigned to the Women's Night Court.

Mrs. Edward Ringwood Hewitt, President of the Women's Municipal League, in recommending an increase in Miss Smith's compensation, states the following:

> We are very closely associated with Miss Alice Smith and have every opportunity to judge of the value of her work. It seems to us that it would be difficult for the City to over-estimate her great usefulness.

Mr. Bernhard was appointed Interpreter in the City Magistrates' Courts on September 12, 1902, at $1,500 per annum. In June, 1909, he was appointed Assistant Clerk at $2,000 per annum, his present position and rate of compensation. The services rendered by Mr. Bernhard are stated by the Chief City Magistrate to be as follows:

Acting Chief Clerk in the absence of the Chief Clerk; compiling of daily and monthly Court records; keeping the records of appeals and filing the same; acting as Clerk of the Chief City Magistrate's Court during trials and hearings; Librarian of the Board of City Magistrates' library; general supervision of the work of Custodian, and having charge of blank forms for all the Magistrates' Courts; drawing of complaints, warrants and other legal papers included in the duties of an Assistant Court Clerk; acting as Auditor of Accounts and Bookkeeper of the Budget appropriations for the Board of City Magistrates; preparing of the monthly payroll and checks for the Magistrates and employees of the Magistrates' Courts; keeping the efficiency record of all Civil Service employees of the First Division, City Magistrates' Courts; acting as Interpreter whenever required by the Chief City Magistrate's office or in the office of the Chief Probation Officer.

The changes proposed by the establishment are in compliance with the resolution governing salary increases adopted by your Board on October 5, 1911.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting 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 City Magistrates' Courts, First Division, of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Assistant Clerk, Office of Chief City Magistrate.....	$2,200 00	1
Female Probation Officer, Women's Night Court.....	1,150 00	1
Typewriting Copyist	750 00	1

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Committee on Salaries and Grades to the President of the Woman's Municipal League of The City of New York.

The Secretary presented the following communication from the Upholsterers International Union of North America requesting, and report of the Committee on Standardization of Salaries and Grades recommending, the establishment in City Departments of the grade of position of Upholsterer, at $4.50 per diem, for an unlimited number of incumbents, also recommending that the heads of Departments in which Upholsterers are employed be requested to provide for the compensation of such employees at the rate of $4.50 per diem by the transfer of funds or by application for an authorization of special revenue bonds in the necessary amount:

Upholsterers' International Union of North America, 159 East 57th Street, New York City, New York, November 2, 1910.

Hon. WM. A. PRENDERGAST, *Comptroller, City of New York:*

Dear Sir—Would like to call your attention to the fact that the prevailing rate of wages for Upholsterers of all descriptions in Greater New York is four dollars and fifty cents per day of eight hours.

We find that the Upholsterers employed in the various Departments are receiving four dollars per day.

We would kindly ask you to use your good offices and see to it that they are paid the prevailing rate of wage, $4.50 per day of eight hours.

Thanking you in advance for the attention we are sure that you will give this matter, I remain, Yours respectfully, AUGUST F. SCHMID, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 1, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—In a communication to the Comptroller on November 4, 1910, the Secretary of the Upholsterers' International Union of North America stated that the rate for Upholsterers in Greater New York had been fixed at $4.50 a day of eight hours. In connection therewith we report as follows:

The rate paid at present to Upholsterers in City Departments is $4 per diem.

On March 28, 1912, private employers of Upholsterers stated that the per diem rates paid and the number of Upholsterers employed by them in busy seasons were as follows:

Pottier & Stymus, $4.50; 20 to 25 men.

Palmer & Embury, $4.50; 35 men.

Charles O. Meyers, $3.50 to $5.50, mostly $4.50 to $5.50; 20 men. Always willing to pay $4.50 to competent men.

Harry Meyers Co., $4.50; 20 to 25 men.

Louis Kragel, $4.50; 3 or 4 men.

R. J. Haddock, $4.50; 10 men.

E. Greenberger & Co., $4.50; 12 to 14 men. Have paid this rate for nearly a year.

J. R. Bremner Co., $4.50; 15 to 20 men.

Fourteenth Street Upholstering Company—Men work by the piece, eight hours daily, and make $20 to $35 a week, according to their skill and industry; good men, $30 to $35; 20 men.

G. Liblick, 50 cents an hour; overtime, extra pay; 4 men. Thinks $4.50 not too much for an upholsterer who can qualify in Civil Service.

A. Drasner, $4; 3 or 4 men.

Matthew Heine, $3 to $4; 1 or 2 men.

August Constant, $3 to $3.50; 2 men.

D. Goldhaar, $4; 3 or 4 men.

H. Edelson, $3; 1 or 2 men.

Bedford Upholstering Company, $3.50; 4 or 5 men.

William Birns, $3 to $4; 3 men.

Charles Kruber's Son, $3.50 to $4; 4 men.

Summary.

Number of men receiving $4.50 rate..... 173

Number of men receiving less..... 30

The names of the 18 firms consulted were taken at random from a long directory list of employers. It appears that during 1911 the rate of $4.50 per diem was adopted in large establishments. Many of the small shops are jobbers. The employer in dull season does the work. In the busy season he may employ one to three men, who are paid $3 to $4 per diem.

The annual cost of increasing the rate for Upholsterers to $4.50 in City Departments, based on the schedules in the Budget for 1912, would be as follows:

Police Department.

One Upholsterer, at $4 per day (304 days)..... $152 00

Fire Department.

One Upholsterer, at $4 per day (279 days)..... 139 50

Department of Education.

One Upholsterer, at $4 per day (279 days)..... 139 50

$431 00

It appears that the prevailing rate for Upholsterers is $4.50 per diem.

We recommend, therefore, the adoption of the attached resolutions approving the $4.50 rate and requesting the heads of City Departments to provide for the increase to December 31, 1912. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Borough of Manhattan; ALFRED E. STEERS, President, Borough of Brooklyn, Committee on Standardization of 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 City Departments of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Diem.	Number of Incumbents.
Upholsterer	$4 50	Unlimited

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby requests the heads of City Departments in which Upholsterers are employed to provide for the compensation of such Upholsterers at the rate of four dollars and fifty cents ($4.50) per diem, by the transfer of funds, or by application for an authorization of special revenue bonds in the necessary amount.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report to the Committee on Standardization of Salaries and Grades, to the Departments affected and to the Secretary of the Upholsterers' International Union of North America.

The Secretary presented the following communication from the Commissioner of Public Charities requesting the establishment of the grade of position of Medical Examiner of Charitable Institutions, at $1,500 per annum, together with a report of the Committee on Salaries and Grades recommending that said request be disapproved, for the reason that it is proposed to substitute a Medical Examiner of Charitable Institutions at $1,500 per annum for the position of Examiner in Lunacy at $1,500 per annum, in the Bureau of Dependent Adults, Brooklyn and Queens, as it would seem that the proposed new position could be covered by the appointment of a Hospital Physician at $1,500 per annum, which grade of position is established in said Department for an unlimited number of incumbents:

(On March 21, 1912, the request of the Commissioner of Public Charities for the establishment of the above grade of position was referred to said Committee.)

Department of Public Charities of The City of New York, Foot of East 26th Street, March 13, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—In accordance with the provisions of section 56 of the Charter of The City of New York, I hereby respectfully request the establishment for this Department of the following position:

Medical Examiner of Charitable Institutions at a salary of $1,500 per annum.

This position is in the Civil Service Classification, Part 12, but has never been officially established for this Department.

The reason for the establishment of this position is because we wish to employ a physician to make a physical examination of patients admitted to private hospitals to see if it is proper for this Department to accept them as public charges.

At the present time there is a vacancy in this Department for a medical position at $1,500 per annum, which will be abolished if the position of Medical Examiner is created, as above requested. There will, therefore, be no necessity for any additional appropriation in order that appointment may be made to the new position, as the present salary schedule will only need to be modified.

Trusting that this application will meet with your favorable consideration, I am, Respectfully yours, MICHAEL J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, March 28, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 13, 1912, the Commissioner of Public Charities requested the establishment in his Department, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Medical Examiner of Charitable Institutions at $1,500 per annum. In connection therewith we report as follows:

The 1912 schedule for the Bureau of Dependent Adults, Brooklyn and Queens, provides for two Examiners in Lunacy, at $1,500 per annum. One of the two positions is vacant. It is proposed to substitute a Medical Examiner of Charitable Institutions at the same rate. The duties of the position will be the examination of patients admitted to private hospitals, with a view of determining whether such patients are a proper city charge. The grade of position of Hospital Physician is established in the Department for an unlimited number of incumbents, at $1,500 per annum. It would seem that the duties of the proposed new position would be covered by an appointment as Hospital Physician.

We therefore recommend that the request be not approved. Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the request of the Commissioner of Public Charities, in a communication dated March 13, 1912, for the establishment of the position of Medical Examiner of Charitable Institutions, with salary at the rate of fifteen hundred dollars ($1,500) per annum, be and the same is hereby *disapproved.*

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Committee on Salaries and Grades to the Commissioner of Public Charities.

The Secretary presented the following communication from the U. S. Blacksmiths' Helpers' Union, Local No. 1, of New York City, requesting an increase in the compensation of Blacksmiths' Helpers in City Departments, from $3 to $3.50 per diem, together with a report of the Committee on Salaries and Grades recommending that said request be not approved, for the reason that a similar request was disapproved by the Board on June 10, 1910, and March 30, 1911, and there is no apparent reason now why the Board should alter its decision:

(On March 28, 1912, the above request was referred to said Committee.)

United States Blacksmiths' Helpers' Union, Local No. 1, of New York City and Vicinity, Florence Building, Corner 2d Avenue and 1st Street, New York, March 19, 1912.

Board of Estimate and Apportionment:

Dear Sirs—The Blacksmiths' Helpers' Union of the Port of New York requests your honorable body to grant the Blacksmiths' Helpers employed in the various City Departments an increase in wages from $3 to $3.50 per day. The increase in the cost of house rent and other necessaries of life compels the Blacksmiths' Helpers to request you to grant them this increase, the rate paid by private firms. Enclosed you will find the cards of private firms paying Blacksmiths' Helpers $3.50 per day. We hope that your honorable body will take this case up and give it careful consideration and attention and to be favored with an early reply from you. Yours respectfully,

J. J. MALONEY, 209 27th Street, Brooklyn.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 19, 1912, the U. S. Blacksmiths' Helpers' Union, Local No. 1, of New York City and Vicinity, requested an increase for Blacksmiths' Helpers in City Departments from $3 to $3.50 per diem. In connection therewith we report as follows:

The Union transmits the business cards of the following private employers in Manhattan, whom, it is stated, pay Blacksmiths' Helpers $3.50 a day:

Edwin Cooper, No. 214 Centre street.
M. F. Dunne, No. 223 West street.
W. H. Mickley & Co., No. 19 Thames street.
W. S. Dorethy, No. 357 West street.
Miller & McKenzie, No. 61 Ann street.

On April 1, 1912, four of these private employers stated the following to an Examiner of the Department of Finance:

Mr. Edwin Cooper:

I have two first-class Blacksmiths' Helpers, to whom I have paid $3.50 a day. I recently advanced their wages 5 per cent. On account of the high class of work in my place, I have no second-class Helpers.

Mr. M. F. Dunne:

I have one Blacksmiths' Helper, and pay him $2.50 a day, the Union rate. I have been in business forty years.

Mr. Mickley, of Mickley & Co.:

I had employed a Blacksmith at $3.50 per day. A Blacksmiths' Helper went to work at the fire as Blacksmith, and the men insisted that he be paid $3.50 a day. I agreed to pay him that rate. I have no other Blacksmiths' Helpers.

Mr. W. S. Dorethy:

I have four Blacksmiths' Helpers. I pay them $2.50 to $2.90 per diem.

Other private employers stated as follows:

Mr. Philip Smith, No. 95 Cliff street, Manhattan:

I pay $14 a week. I have a small shop. I believe $2.50 a day is the average rate.

Mr. William Brady, No. 149 Watts street, Manhattan:

I pay one all-round man $3.25. Additional Helpers I would pay $2.25 to $3, according to ability.

Messrs. Gill & Son, No. 1 Lorraine street, Brooklyn:

We pay Blacksmiths' Helpers $2.25 to $3 a day.

Mr. J. P. Hanson & Son, No. 259 West 27th street, Manhattan:

I have three Blacksmiths' Helpers. I pay $2 to $2.50 a day.

Mr. Greenlie Wyatt, No. 253 South street, Manhattan:

I pay Blacksmiths' Helpers $2.25 to $2.60 a day.

Mr. Jacob Schnaible, No. 153 Lafayette street, Manhattan:

I pay $2 or $2.25 a day. I can get a good Blacksmiths' Helper for $2.25 I have three men.

Mr. George Brown, West and Milton streets, Brooklyn:

I pay Blacksmiths' Helpers $2.25 to $2.75 a day.

The Metropolitan Street Railway Company, the Examiner was informed, pays $2 a day. An official of another large company stated that $2.50 to $2.75 a day was paid.

On June 10, 1910, and March 30, 1911, similar requests were disapproved by your Board. There is no reason now apparent why the Board should alter that decision.

We recommend, therefore, that the present request be not approved.

Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting President, Board of Aldermen, Select Committee.

The following resolution was offered:

Resolved, That the request of the U. S. Blacksmiths' Helpers' Union, Local No. 1 of New York City and vicinity, in a communication dated March 19, 1912, for an increase in the compensation of Blacksmiths' Helpers employed in the City Departments, from three dollars ($3) to three dollars and fifty cents ($3.50) per diem, be and the same is hereby *disapproved.*

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Committee on Salaries and Grades to the Secretary of the U. S. Blacksmiths' Helpers' Union.

The Secretary presented the following communication from the Commissioner of Bridges submitting form of contract, plans and specifications for the interior finish of the new Municipal Building, together with a report of the Comptroller and Chief Engineer relative to said plans and specifications, stating that the plans have been very carefully reviewed and discussed in every detail with representatives of the Department of Bridges, the architects and the several experts associated with them, that a number of suggestions have been made and have been adopted, and recommending the approval thereof at an estimated cost of $3,190,000:

(On January 4, 1912, a communication from the Commissioner of Bridges, submitting the proposed form of contract, plans and specifications, was referred to the above Committee.)

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, December 22, 1911.

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

Gentlemen—Pursuant to the provisions of chapter 670 of the Laws of 1907, I transmit herewith, for your approval, form of contract, plans and specifications for the Interior Finish of the Municipal Building, exclusive of the Tower. The plans are shown on 96 drawings, bearing the general title, "City of New York, Department of Bridges, Municipal Building," and are designated by the following numbers: 999 to 1028, 1034, 1050 to 1072, 1001E, 1004E, 1005E, 1050E to 1056E, 1001H to 1027H, 1050H, 1004P, 1006P, 1050P and 1051P. These plans and specifications have been submitted to the Department of Water Supply, Gas and Electricity for its approval.

The estimated cost of the proposed contract is $3,190,000, and is chargeable to the fund of the Department of Bridges, entitled "C. D. B.—37, Municipal Building, Construction of, Manhattan Terminal of New York and Brooklyn Bridge." The balance unencumbered in this fund on November 30, 1911, was $2,559,721.65. It is thus seen that the amount in the fund is insufficient to meet the estimated cost of the proposed contract. I beg to request that the contract form, plans and specifications and the estimate of cost be approved and bids received thereon. When the bids are received application will be made to your Board to increase the fund sufficiently to cover the cost of the contract. Yours truly,

ARTHUR J. O'KEEFFE, Commissioner.

THE CITY OF NEW YORK.
DEPARTMENT OF BRIDGES.
Notice to Contractors.
PROPOSALS FOR BIDS OR ESTIMATES.
Ordinances, Sections 510, 511, 516.

1. Bids or estimates will be received by the Commissioner Bridges of The City of New York at the Department of Bridges, No. 21 Park Row, Borough of Manhattan, The City of New York, until two o'clock p. m.,....., 1912, for the interior finish of the Municipal Building exclusive of the tower.

2. All bids must be inclosed in sealed envelopes, indorsed "Bid for the Interior Finish of the Municipal Building, exclusive of the Tower."

At two o'clock p. m. of....., 1912, the bids will be publicly opened and read by the Commissioner.

3. Bidders are particularly requested to examine the plans, specifications and location of the work before bidding, and they are expressly notified that no deviation from the specifications will be allowed, unless the same has been previously authorized by and written permission therefor obtained from the Commissioner.

4. No bid will be considered which does not adhere strictly to the requirements prescribed herein and on the bidding sheet.

Charter, Section 420.

5. No bid will be received or considered which is not accompanied by either a certified check upon a State or National Bank of The City of New York, payable to the Comptroller of The City of New York, or money to the amount of five per cent. of the amount of the bond required for the faithful performance of the contract. such check or money must not be inclosed in the envelope containing the bid, but must be handed to the official of the Department who receives the bids, for examination and approval, before receiving the bid. All such deposits except that of the successful bidder will be returned by the Comptroller to the owners within three days after the contract is awarded. No bid shall be withdrawn pending the award.

Charter, Section 419.

6. If the successful bidder or bidders, within five days after receiving notice of the award, shall not attend at the Department of Bridges, together with the sureties offered by him or them, and execute the contract, and the sureties sign the bond; or if the sureties offered are not approved by the Comptroller and others are not provided by the bidder or bidders acceptable to the Comptroller, the bidder or bidders will be considered as having abandoned his or their bid, and the work will be readvertised and relet until a contract for the same be accepted and executed.

Charter, Section 420.

7. In the event of such default on the part of the successful bidder or bidders, the deposit made by him or them shall be forfeited to and retained by The City of New York as liquidated damages because of such default. If the contract is duly executed by the bidder or bidders and the sureties for same duly qualify, the amount of the deposit will be returned to him or them.

Charter, Section 419.

8. No bid will be accepted from or contract awarded to any person who is in arrears to The City of New York, or who is a defaulter, as surety, Contractor or otherwise, to The City of New York.

Ordinances, Section 512—Chapter 327, Laws of 1900—Charter, Section 1533.

9. Each bid or estimate shall contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of The City of New York, is, shall be or become interested directly or indirectly, as contracting party, partner, stockholder, surety or otherwise, in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true.

Ordinances, Sections 514, 515, 520—Charter, Section 419.

10. Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in The City of New York, with their respective places of business or residence, or of a guaranty or surety company duly authorized by law to act as surety, to the effect that if the contract be awarded to the person or persons making the estimate they will, or it will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if he or they shall omit or refuse to execute the same, they will, or it will pay to the Corporation any difference between the sum to which he or they would be entitled on its completion and that which the Corporation may be obliged to pay to the persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in The City of New York, and is worth the amount of the security required for the completion of the contract and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; that he has offered himself as surety in good faith, and with an intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be determined by the Comptroller of The City of New York after the award is made and prior to the signing of the contract.

11. A lump sum must be bid for all work and construction as shown on the plans and described in the specifications as being a part of the definite contract, which covers all work not covered by the contract units. A unit price must be bid for each item of work in the list of items covered by the contract units. The estimated quantities of the contract units upon which a comparison of bids will be made is given in paragraph 552 of the specifications. The bids will be compared on the basis of the grand total of the lump sum price bid plus the total of all the contract units.

Quantities.

12. Each bidder must calculate all quantities for himself and assume all responsibilities therefor.

13. The Contractor will be required to complete the entire work to the satisfaction of the Commissioner, and in accordance with the specifications hereto annexed and the accompanying plans.

Ordinances, Section 520.

14. Should the Commissioner for any cause authorize a suspension of work, the time of such suspension will be added to the time allowed for completion. Suspension of work by order of the Commissioner shall not be ground for claim for damages by the Contractor nor ground for waiver of The City's claim for damages for non-completion of the work, as above required.

15. The work must be begun within five days of the date of certification of the contract by the Comptroller, and be entirely completed on or before the expiration of twelve (12) calendar months.

16. The amount of security to guarantee the faithful performance of the work will be one million dollars ($1,000,000).

Charter, Section 419.

17. The right is reserved by the Commissioner to reject all bids should he deem it in the interest of The City of New York so to do.

Comptroller's Certificate—Charter, Section 149.

18. The contract shall not be binding or of any force unless the Comptroller of the City shall indorse thereon his certificate that there remains unexpended and unapplied, as provided in the Greater New York Charter, a balance of the appropriation or fund applicable thereto sufficient to pay the estimated expense of executing this contract, as certified by the officers making the same.

Ordinances, Section 516.

19. 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, in the form approved by the Corporation Counsel, may be obtained upon application therefor at the office of the Commissioner of Bridges, No. 21 Park row, New York City, where the plans, which are made a part of the specifications, may be seen.

ARTHUR J. O'KEEFFE, Commissioner of Bridges.

Dated The City of New York,....., 1912.

Department of Bridges, No. 21 Park row, Manhattan, The City of New York.

Notice—The attention of bidders is particularly called to the fact that unless their bids are made in conformity with the requirements of the forms of Bid and of the Contract and Specifications, such bids cannot be properly compared and will be *thrown out* as informal. Any alternative bid or proposition must be made entirely separate and distinct from the regular bid.

THE CITY OF NEW YORK.

DEPARTMENT OF BRIDGES.

BID OR ESTIMATE.

To the Commissioner of Bridges:

For the Interior Finish of the Municipal Building, Exclusive of the Tower.

The bidder's name and residence must be inserted here, and in case of firms, the name and residence of each and every member of the firm must be inserted.

Made this ..... day of .....1912, by.....residing at (or place of business).....by.....residing at (or place of business) .....by.....residing at (or place of business)..... by.....residing at (or place of business).....

1. .....

do declare that.....the only person interested in this estimate; and that no other person than is herein named has any interest in this estimate, or in the contract proposed to be taken.

2.....further declare that this estimate is made without any connection with any other person or persons making an estimate for the same purpose, and is in all respects fair, and without collusion or fraud.

3.....further declare that no member of the Board of Aldermen, head of a department, chief of a bureau, deputy thereof or clerk therein, or any 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 this bid or estimate, or in the performance of the contract, work or business to which it relates, or in any portion of the profits thereof.

Note—In case a bid or estimate shall be submitted by or in behalf of any corporation, it must be signed in the name of such corporation by some duly authorized officer or agent thereof, who shall also subscribe his own name and office. If practicable, the seal of the corporation should also be affixed.

4.....further declare that the names of the persons affixed to the consent hereto annexed were written by said persons respectively, and that said persons are householders, freeholders, or are officers of a guaranty or surety company authorized by law to become surety in The City of New York.

5.....ha carefully examined the annexed contract (including the specifications and plans), in the form approved by the Corporation Counsel, and

will execute the contract and perform all its terms, covenants and conditions, and

will execute the contract and perform all its terms, covenants and conditions, and

will furnish all the work, labor, materials, tools, plant and appliances necessary for the Interior Finish of the Municipal Building, exclusive of the Tower, in accordance with the plans and specifications and the proposed form of contract therefor, at the following prices, to wit:

Definite Contract.

1. For all work and construction shown and specified as a part of the definite contract, which covers all work not covered by the contract units, the lump sum of .....dollars ($.....).

Contract Units.

2. For steel door bucks in openings set complete as specified for heights up to and including 13 feet, the sum of.....dollars ($.....) per opening.

2-B. For steel door bucks in openings set complete as specified for heights over 13 feet up to and including 14 feet, the sum of.....dollars ($.....) per opening.

2-C. For steel door bucks in openings set complete as specified for heights over 14 feet, the sum of.....dollars ($.....) per opening.

3-A. For steel brace posts in partitions set complete as specified for heights up to and including 13 feet, the sum of.....dollars ($.....) per post.

3-B. For steel brace posts in partitions set complete as specified for heights over 13 feet up to and including 14 feet, the sum of.....dollars ($.....) per post.

3-C. For steel brace posts in partitions set complete as specified for heights over 14 feet, the sum of.....dollars ($.....) per post.

4. For steel head pieces over partition sash set complete as specified, the sum of .....dollars ($.....) per linear foot.

5. For hollow tile partitions set complete, and including cutting and patching for all trades, as specified, the sum of.....dollars($.....) per square foot.

6. For hollow tile furring less than 4 inches thick as specified, and including cutting and patching, the sum of.....dollars ($.....) per square foot.

7. For cinder concrete fill on fireproof floor arches as specified, and including finished Portland cement mortar top to receive asphalt floors, the sum of .....dollars ($.....) per square foot.

8. For stone concrete fill on fireproof floor arches as specified, and ready to receive mosaic and tile, the sum of.....dollars ($.....) per square foot.

9-A. For cement finished floors, including cinder concrete foundation as specified, the sum of.....dollars ($.....) per square foot.

9-B. For rock asphalt finished floors as specified (asphalt only) the sum of .....dollars ($.....) per square foot.

9-C. For cork finished floors, including cinder concrete and all foundations from floor arch up, the sum of.....dollars ($.....) per square foot.

9-D. For cork cove base and scribing piece as specified, the sum of..... ..... dollars ($.....) per linear foot.

10. For waterproofing floors, including vertical work on walls and mortar leveling under waterproofing on floors, all as specified, the sum of..... ..... dollars ($.....) per square foot.

11. For copper sleeves around pipes running through waterproofing as specified, the sum of.....dollars ($.....) per sleeve.

12-A. For iron furring and lathing vertical surfaces as specified, the sum of ..... dollars ($.....) per square foot.

12-B. For iron furring and lathing horizontal surfaces as specified, the sum of ..... dollars ($.....) per square foot.

12-C. For metal corner beads set complete as specified, the sum of..... ..... dollars ($.....) per linear foot.

13-A. For plastering on masonry walls, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

13-B. For plastering on metal lath walls, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

13-C. For Keene cement plastering on masonry walls in toilets as specified, the sum of ..... dollars ($.....) per square yard.

13-D. For Keene cement plastering on metal lath walls in toilets as specified, the sum of ..... dollars ($.....) per square yard.

14-A. For plastering on masonry ceilings, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

14-B. For plastering on metal lath ceilings, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

14-C. For Keene cement plastering on masonry ceilings in toilets as specified, the sum of ..... dollars ($.....) per square yard.

14-D. For Keene cement plastering on metal lath ceilings in toilets as specified, the sum of ..... dollars ($.....) per square yard.

15. For hollow metal cornice, including access sections and framing, as specified, the sum of ..... dollars ($.....) per linear foot.

16-A. For corridor marble wainscot dado set complete as specified, the sum of ..... dollars ($.....) per square foot.

16-B. For corridor marble wainscot base set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-C. For corridor marble wainscot cap set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-D. For corridor marble door architraves set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-E. For corridor marble architrave plinths set complete as specified, the sum of ..... dollars ($.....) per plinth.

16-F. For corridor marble door jamb linings set complete as specified, the sum of ..... dollars ($.....) per plinth.

16-G. For marble mosaic floors with borders in corridors as specified, the sum of ..... dollars ($.....) per square foot.

17-A. For glass wainscot set complete as specified, the sum of..... ..... dollars ($.....) per square foot.

17-B. For glass water closet partitions set complete as specified, the sum of..... ..... dollars ($.....) per square foot.

17-C. For toilet room marble partition cap set complete as specified, the sum of ..... dollars ($.....) per linear foot.

17-D. For toilet room marble door stiles to water closet compartments set complete as specified, the sum of .....dollars ($.....) per linear foot in height.

17-E. For toilet room marble window sills set complete as specified, the sum of ..... dollars ($.....) per linear foot.

17-F. For marble safes under water closets set complete as specified, the sum of ..... dollars ($.....) per safe.

17-G. For toilet room marble door trims set complete and as specified, the sum of ..... dollars ($.....) per linear foot.

17-H. For marble mosaic floor (no border) as specified, the sum of..... ..... dollars ($.....) per square foot.

17-I. For the marble and tile for one two-stall urinal set complete as specified, the sum of ..... dollars ($.....).

17-J. For toilet room marble base set complete as specified, the sum of..... ..... dollars ($.....) per linear foot.

18-A. For slop sink closet marble wainscot set complete as specified, the sum of ..... dollars ($.....) per square foot.

18-B. For slop sink closet marble floor safes under sinks set complete as specified, the sum of ..... dollars ($.....) per safe.

18-C. For tile floors as specified, the sum of..... dollars ($.....) per square foot.

19-A. For slate base in connection with asphalt floors set complete as specified, the sum of ..... dollars ($.....) per linear foot.

19-B. For slate plinth blocks set complete as specified, the sum of..... .....Dollars ($.....) per plinth.

20-A. For corridor marble saddles set complete as specified, the sum of..... .....Dollars ($.....) per linear foot.

20-B For toilet and slop sink closet marble saddles set complete as specified, the sum of.....dollars ($.....) per linear foot.

20-C. For marble saddles to openings to asphalt floored spaces set complete as specified, the sum of.....dollars ($.....) per linear foot.

21-A. For marble base set complete as specified in connection with steel base, the sum of.....dollars ($.....) per linear foot.

21-B. For marble plinths under steel architrave trims set complete as specified, the sum of.....dollars ($.....) per plinth.

21-C. For marble plinths under door jambs set complete as specified, the sum of .....dollars ($.....) per plinth.

22-A. For marble wainscot, including returns, back of isolated lavatories in offices as specified, the sum of.....dollars ($.....) per square foot.

22-B. For marble cap over Unit 22-A, 2¼ inches by 1⅜ inches, as specified, the sum of.....dollars ($.....) per linear foot.

22-C. For marble cap over Unit 22-A, 6 inches by 1⅜ inches, as specified, the sum of.....dollars ($.....) per linear foot.

22-D. For marble floor slabs under Unit 22-A as specified, the sum of..... .....dollars ($.....) per square foot.

23-A. For marble mosaic floors in private stair-halls as specified, the sum of.... .....dollars ($.....) per square foot.

23-B. For marble mosaic floors in miscellaneous public spaces as specified, the sum of.....dollars ($.....) per square foot.

24. For hollow metal picture molding, including grounds, set and finished complete as specified, the sum of.....dollars ($.....) per linear foot.

25-A. For stationary corridor hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-B. For pivoted corridor hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-C. For stationary interior hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-D. For pivoted interior hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-E. For single light corridor hollow metal partition sash (50 per cent. pivoted, 50 per cent. stationary), frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of.....dollars ($.....) per square foot.

26. For hollow metal base, including grounds, set and finished complete, as specified, the sum of.....dollars ($.....) per linear foot.

27. For hollow metal pipe shaft and valve pocket doors, including frames, trim, grounds and setting of hardware, all complete, as specified, the sum of..... .....dollars ($.....) per opening.

28. For hollow metal water closet compartment and retiring room doors, including setting of hardware, all complete, as specified, the sum of..... .....dollars ($.....) per opening.

29. For hollow metal frames and trim to wicket openings, including reinforcement for grilles and shelf, grounds, and punching, set and finished complete, as specified, the sum of .....dollars ($.....) per opening.

30-A. For hollow metal doors with transom, including either glass or metal panels, with jambs, transom and transom sash, but no architrave trim, to include also grounds, setting of hardware and any necessary drilling and tapping of rough steel, the measurements to be taken inside of jambs, all finished complete, as specified, for openings 3 feet or less in width by 10 feet or less high, the sum of..... .....dollars ($.....) per opening.

30-B. For all work as specified for Unit 30-A for openings 3 feet or less in width by over 10 feet up to and including 11 feet 6 inches high, the sum of..... .....dollars ($.....) per opening.

30-C. For all work as specified for Unit 30-A for openings 3 feet or less in width by over 11 feet 6 inches high, the sum of..... .....dollars ($.....) per opening

30-D. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width by 10 feet or less in height, the sum of..... .....dollars ($.....) per opening.

30-E. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 10 feet up to and including 11 feet 6 inches in height, the sum of.....dollars ($.....) per opening.

30-F. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width and over 11 feet 6 inches in height, the sum of.... .....dollars ($.....) per opening.

30-G. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) by 10 feet or less high, the sum of..... .....dollars ($.....) per opening.

30-H. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) and over 10 feet up to and including 11 feet 6 inches hight, the sum of.....dollars ($.....) per opening.

30-I. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) and over 11 feet 6 inches high, the sum of..... .....dollars ($.....) per opening.

31-A. For hollow metal doors without transoms, including either glass or metal panels and jambs and heads, but without architrave trims, to include also grounds, setting of hardware and any necessary drilling or tapping of rough steel, the measurements to be taken inside of jambs, all finished complete, as specified, for openings 3 feet or less in width by 7 feet 4 inches high, the sum of..... Dollars ($.....) per opening.

31-B. For all work as specified for Unit 31-A for openings over 3 feet up to and including 3 feet 6 inches in width by 7 feet 4 inches high, the sum of..... .....Dollars ($.....) per opening.

31-C. For all work as specified for Unit 31-A for openings over 3 feet 6 inches in width (double doors) by 7 feet 4 inches high, the sum of..... Dollars ($.....) per opening.

32-A. For hollow metal door achitrave trims (one side of partition only), to include grounds and plinths, measurements taken between jambs and from finished floor level, for openings 3 feet or less in width by 7 feet 4 inches high, the sum of .....Dollars ($.....) per opening.

32-B. For all work as specified for Unit 32-A for openings over 3 feet up to and

including 3 feet 6 inches in width by 7 feet 4 inches high, the sum of..... .....Dollars ($.....) per opening.

32-C. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 7 feet 4 inches up to and including 10 feet high, the sum of..... .....Dollars ($.....) per opening.

32-D. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 10 feet up to and including 11 feet 6 inches, the sum of..... .....Dollars ($.....) per opening.

32-E. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 11 feet 6 inches high, the sum of..... Dollars ($.....) per opening.

32-F. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 7 feet 4 inches up to and including 10 feet high, the sum of.....Dollars ($.....) per opening.

32-G. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 10 feet up to and including 11 feet 6 inches high, the sum of.....Dollars ($.....) per opening.

32-H. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 11 feet 6 inches high, the sum of..... .....Dollars ($.....) per opening.

32-I. For all work as specified for Unit 32A for openings over 3 feet 6 inches in width (double doors) by 10 feet or less in height, the sum of..... .....Dollars ($.....) per opening.

32-J. For all work as specified for Unit 32-A for openings over 3 feet 6 inches in width (double doors) and over 10 feet up to and including 11 feet 6 inches high, the sum of.....Dollars ($.....) per opening.

32-K. For all work as specified for Unit 32-A for openings over 3 feet 6 inches in width (double doors) and over 11 feet 6 inches high, the sum of..... .....Dollars ($.....) per opening.

33-A. For finishing hardware for doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders, the sum of..... .....Dollars ($.....) per opening.

33-B. For finishing hardware for doors, inter-connecting type locks, hardware complete, except door checks, stops and holders, the sum of..... .....Dollars ($.....) per opening.

33-C. For finishing hardware for double doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders, the sum of..... .....Dollars ($.....) per opening.

33-D. For finishing hardware for doors, uniform type locks, hardware complete, except door checks, stops and holders, for entrance doors from vestibules or passages to toilet rooms, slop sink closets, storage and filing spaces and closets, the sum of .....Dollars ($.....) per opening.

33-E. For finishing hardware for doors, uniform type latches operated by knobs only from both sides (no key), hardware complete, except door checks, stops and holders, for doors between vestibules to toilet rooms and corridors, the sum of .....Dollars ($.....) per opening.

33-F. For finishing hardware for doors to inter-communicating stairs, hardware complete, except door checks, stops and holders, the sum of..... .....Dollars ($.....) per opening.

33-G. For finishing hardware for water closet compartment doors, hardware complete, the sum of .....Dollars ($.....) per opening.

33-H. For finishing hardware for retiring room doors, hardware complete, the sum of.....Dollars ($.....) per opening.

33-I. For finishing hardware for pipe shaft and valve pocket doors, hardware complete, the sum of.....Dollars ($.....) per opening.

33-J. For finishing hardware for doors to pipe spaces, hardware complete, the sum of.....Dollars ($.....) per opening.

33-K. For door stops as specified, the sum of..... Dollars ($.....) per dozen.

33L. For door checks as specified, the sum of..... Dollars ($.....) per check.

33-M. For door holders as specified, the sum of..... Dollars ($.....) per dozen.

34. For painting cement floor, including paper protection, as specified, the sum of .....Dollars ($.....) per square foot.

35-A. For water closets of type specified installed complete, with waste, vent and supply connections, the sum of.....Dollars ($.....) per closet.

35-B. For water closets to conform with the specification but with back outlets, installed complete, with waste, vent and supply connections, the sum of..... .....Dollars ($.....) per closet.

36. For urinals as specified, installed complete, with waste, vent and supply connections, the sum of.....Dollars ($.....) per urinal.

37-A. For lavatories with drinking water connections, within 5 feet of stack, installed complete, with waste, vent and supply connections as specified, the sum of ..... dollars ($.....) per lavatory.

37-B. For lavatories with drinking water connections, beyond 5 feet and less than 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

37-C. For lavatories with drinking water connections, beyond 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

38-A. For lavatories without drinking water connections, within 5 feet of stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

38-B. For lavatories without drinking water connections, beyond 5 feet and less than 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

38-C. For lavatories without drinking water connections, beyond 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

39. For slop sinks, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per sink.

40-A. For vacuum outlets within 5 feet of riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

40-B. For vacuum outlets, beyond 5 feet and less than 15 feet from riser, installed complete with connection to riser, as specified, the sum of..... .....dollars ($.....) per outlet.

40-C. For vacuum outlets, beyond 15 feet from riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

41-A. For gas outlets within 5 feet of riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

41-B. For gas outlets beyond 5 feet and less than 15 feet from riser, installed complete with connection to riser, as specified, the sum of..... dollars ($.....) per outlet.

41-C. For gas outlets beyond 15 feet from riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

42. For electric ceiling outlets as specified, the sum of..... dollars ($.....) per outlet.

43. For electric bracket outlets as specified, the sum of..... dollars ($.....) per outlet.

44. For electric insertion plug outfits, including outlet boxes, as specified, the sum of.....dollars ($.....) per outfit.

45. For local electric push-button switch, including outlet box, as specified, the sum of.....dollars ($.....) per switch.

46. For electric wall receptacle, including outlet box, as specified, the sum of.....dollars ($.....) per receptacle.

47. For electric floor outlet boxes for lighting system, as specified, the sum of.....dollars ($.....) per box.

48. For electric floor outlet boxes for interconnection system, as specified, the sum of.....dollars ($.....) per box.

49. For electric ceiling extension outlets, as specified, the sum of..... .....dollars ($.....) per outlet.

50. For electric junction boxes for branch circuit connections, the sum of .....dollars ($.....) per box.

51. For electric 10-branch circuit cutout panels, as specified, the sum of .....dollars ($.....) per panel.

52. For empty telephone cabinets as specified, the sum of..... dollars ($.....) per cabinet.

53. For electric floor interconnection boxes as specified, the sum of..... .....dollars ($.....) per box.

54. For electric outlet boxes for wall telephones as specified, the sum of .....dollars ($.....) per box.

55. For No. 14 duplex wire installed in ½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

56. For No. 12 duplex wire installed in ¾-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

57. For three No. 8 conductors installed in 1-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

58. For three No. 6 conductors installed in 1¼-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

59. For three No. 5 conductors installed in 1¼-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

60. For three No. 3 conductors installed in 1½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

61. For three No. 2 conductors installed in 1½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

62. For empty conduits, ½-inch size, as specified, the sum of..... .....dollars ($.....) per linear foot.

63. For empty conduit, 1½-inch size, as specified, the sum of..... ..... dollars ($.....) per linear foot.

64. For electric service boxes complete, including all connections, as specified, the sum of..... dollars ($.....) per box.

65. For electric 10-wire service line, consisting of ten No. 18 rubber-covered wires installed in 1-inch conduit as specified, including conduit, the sum of..... ..... dollars ($.....) per linear foot.

66. For electric ten No. 14 wire cable installed in 1¼-inch conduit, as specified, including conduit, the sum of..... dollars ($.....) per linear foot.

67. For electric 50-wire cable installed in 1¼-inch conduit as specified, including conduit, the sum of..... dollars ($.... .....) per linear foot.

68. For empty 1-inch conduit installed under door saddles, connecting each end with a small pull box located behind the top member of baseboard at each side of the door, includiny pull boxes, as specified, the sum of..... dollars ($.....) per installation.

69. For empty ¾-inch conduit originating at pull box near ceiling and terminating at a pull box located behind top member of baseboard, including pull boxes, as specified, the sum of..... dollars ($.....) per installation.

The total amount of the above itemized bid as based on the estimated quantities and the unit prices above set forth, and including the definite contract, is the sum of ..... dollars ($.....)

The foregoing itemized prices are to be paid for the actual quantities of the several classes of work in the completed work or structure and are to cover the cost of all the work, labor, materials, tools, plant and appliances of every description necessary to complete the entire work, as specified, all the cost of tests, inspection and models, as hereinafter specified, and the removal of all debris, temporary work or appliances, and of all obstructions necessary to the performance of the work.

.....
Residence (or place of business), ...
.....
Residence (or place of business), ...
.....
Residence (or place of business), ...
.....
Residence (or place of business), ...
Bidder(s) or Estimator(s).

Each and every person bidding and named above must sign here.

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

Names of Bidders.

.....
.....

being severally duly sworn, say each for himself, that the several matters stated in the above estimate are in all respects true.

Signature(s) of Bidder(s).

.....
.....
.....
.....

Subscribed and sworn to before me this..... day of..... A. D. 1912.

..... Notary Public or Commissioner of Deeds.

This affidavit must be made by the person or persons bidding for the contract.

SURETIES' AGREEMENT.

In consideration of the premises, and of one dollar to us and each of us in hand paid by The City of New York, the receipt whereof is hereby acknowledged—

We, the undersigned, jointly and severally, consent and agree that if the contract for which the preceding estimate is made be awarded to the person making the same, we will, upon its being so awarded, become bound as his or their sureties for its faithful performance; and if the said person shall omit or refuse to execute such contract, if so awarded, and give the proper security within five days after written notice that the same is ready for execution, we will pay, without proof of notice or demand, to the said The City of New York, any difference between the sum to which such person or persons would be entitled upon the completion of such contract and the sum which The City of New York may be obliged to pay to the person or persons to whom the contract shall be awarded at any subsequent letting.

In witness whereof, we have hereunto set our hands this..... day of ....., one thousand nine hundred and twelve.

This consent must be signed by the two sureties, with their place of business or residence added.

.....
Residence (or place of business), ...
.....
Residence (or place of business), ...

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

The above-named....., being duly sworn, says that he is a householder or freeholder in The City of New York, and is worth the sum of one million dollars ($1,000,000), over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; being the amount of the security required for the completion of the contract above referred to; that he has offered himself as a surety in good faith, and with an intention to execute the bond required by law, if the contract shall be awarded to the person for whom he

consents to become surety.

.....

Subscribed and sworn to before me, this .....day of....., A. D. 1912.
Subscribed and sworn to before me, this .....day of....., A. D. 1912.

.....
Notary Public or Commissioner of Deeds.

Note—If the surety is a householder but not a freeholder, the word freeholder must be erased. If a freeholder but not a householder, the word householder must be erased.

Each of these depositions must be signed by one of the proposed bondsmen and sworn to.

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

The above-named....., being duly sworn, says that he is a householder or freeholder in The City of New York, and is worth the sum of one million dollars ($1,000,000), over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; being the amount of the security required for the completion of the contract above referred to; that he has offered himself as a surety in good faith, and with an intention to execute the bond required by law, if the contract shall be awarded ot the person for whom he consents to become surety.

.....

Subscribed and sworn to before me, this .....day of....., A. D. 1912.

.....
Notary Public or Commissioner of Deeds.

COMMISSIONER'S CONSENT FOR SUBSTITUTION OF SURETY.

I hereby consent that.....
be substituted as sure.....on the bond of.....Contractor for the Interior Finish of the Municipal Building, exclusive of the Tower, in place of
.....
.....
....., Commissioner of Bridges.

Dated New York, ..., 1912.

The adequacy and sufficiency of the above-named sureties approved.

Dated this.....day of ....., 1912.

....., Comptroller.

THE CITY OF NEW YORK.

DEPARTMENT OF BRIDGES.

1912.

CONTRACT.

For the Interior Finish of the Municipal Building, Exclusive of the Tower.

Parties.

This agreement, made and entered into this.....day of.....
in the year one thousand nine hundred and twelve by and between The City of New York, party of the first part, by the Commissioner of Bridges, pursuant to chapter 670 of the Laws of 1907, and pursuant to the Greater New York Charter, and the acts amendatory thereof and in addition thereto, and.....
Contractor(s), party of the second part.

Covenant.

Witnesseth, That the parties to these presents, each in consideration of the agreements on the part and behalf of the other herein contained, have mutually agreed, and hereby mutually agree, the party of the first part for itself and its successors, and the party of the second part for itself or himself and his executors and administrators, as follows:

Parties Described.

(A) Wherever the words "The City," or a pronoun designating the same, appears, the same shall mean The City of New York, acting by or through the Commissioner of Bridges; wherever the word "Commissioner," or a pronoun designating the same appears, it shall mean the Commissioner of Bridges of The City of New York; wherever in this agreement the word "Contractor," or a pronoun in the place of him or them, is used, the same shall mean and intend the party of the second part.

"Architect."

(B) Wherever the word "Architect" or "Architects" is used in this contract or the accompanying specifications, it shall be taken to mean the Architect, or firm of Architects, duly selected by the Commissioner for the Municipal Building. Wherever the word "Inspector" is used, it shall be taken to mean the Inspector detailed by the Commissioner, at the mills, shops, or in the field. Wherever the words "Chief Engineer of Light and Power" are used, they shall be taken to mean the Chief Engineer of Light and Power of the Department of Water Supply, Gas and Electricity. Wherever it is provided that anything is to be, or to be done, if or as, or when or where "approved," "required," "directed," "specified," "designated" or "deemed necessary," it shall be taken, unless otherwise expressed, to mean and intend approved, required, directed, specified, designated or deemed necessary, as the case may be, by the Commissioner.

Work Described.

(C) The Contractor will furnish all the labor, plant and materials, at his own cost and expense, necessary or proper for the purpose, and in a good and substantial and workmanlike manner perform the necessary work for the interior finish of the Municipal Building, exclusive of the tower, to the satisfaction of the Commissioner and of the Architect, for the prices herein agreed upon and determined.

Architect to Decide.

(D) To prevent all disputes and litigations, the Architect shall, in all cases, determine the amount or the quality of the several kinds of work which are to be paid for under this contract, and he shall determine all questions in relation to said work and the construction thereof; and he shall in all cases decide every question which may arise relative to the execution of this contract on the part of the Contractor, and his estimate and decision, subject to the approval of the Commissioner, shall be final, conclusive and binding, and such estimate and decision, in case any question shall arise, shall be a condition precedent to the right of the Contractor to receive any money under this agreement.

Inspectors.

(E) The Commissioner shall be and is hereby authorized to appoint such inspectors or other persons as he shall deem necessary to inspect the materials and labor furnished and done under this agreement, and to see that the same correspond with the specifications, plans and drawings, and the terms and intent thereof.

Contractor Responsible for Estimates of Quantities.

(F) Neither the Department of Bridges nor the City is to be held responsible for the estimates of the quantities of materials to be furnished or work to be done. The Contractor has judged for himself as to such estimates as well as to the conditions to be met which will affect both the cost and time required for the execution of the work, and assumes all responsibilities therefor.

Parts of Contract.

(G) All the work, labor and materials to be done and furnished shall be done and furnished strictly pursuant to and in conformity with the specifications and plans herein contained or hereto annexed and numbered for identification, and according to the directions of the Architect, during the progress of the work, and these specifications and plans, together with the proposals for bids or estimates, the bid or estimate and the bond are hereby made and declared a part of this contract.

Instructions and Details.

(H) The Contractor shall build, construct, finish and fully complete the whole of the work in a manner described and shown in the specifications and by the plans and drawings and in accordance with such further details and instructions as the Architect may from time to time furnish or issue for the purpose of insuring the thorough completion of the work in the most efficient manner.

Work of Other Contractors in Connection With This.

(I) If, before the completion of the work contemplated herein, it shall become necessary to do any other or further work than is provided for in this contract, the Contractor will not in any way interfere with or molest such other person or persons as the Commissioner may employ to do such work, and will suspend such part of the work herein specified, or will carry on the same in such manner as may be ordered by the Commissioner, to afford all reasonable facilities for doing such work; and no other daamge or claim by the Contractor therefor shall be allowed, except such extension of the time specified in this contract for the performance thereof as the Commissioner may deem reasonable and shall so certify in writing.

Work and Material Must Agree With Specifications.

(J) The work shall be performed in the best manner, and a sufficient number of persons shall be at all times employed to execute the work with due dispatch, the whole to be done to the satisfaction of the Commissioner and the Architect; and all work not done to the satisfaction of the Commissioner and the Architect shall be immediately made good by the Contractor, or if he shall neglect or refuse to remove any rubbish to the place or places and in the manner required by the Architect, or if such work or materials as may be condemned by the Architect be not removed and replaced when notice is given by the Architect, then the Architect may remove or cause the same to be removed or satisfactorily replaced, by contract or otherwise, as he may deem expedient, and charge the expense thereof to the Contractor, and the expense so charged shall be deducted and paid by the City out of such moneys as are or may be due to the Contractor under this agreement.

Modifications.

(K) This contract and the specifications herein contained, and the plains hereafter referred to, may be modified and changed from time to time as may previously be agreed to in writing between the parties hereto, in a manner not materially affecting the substance thereof, or increasing the price to be paid, in order to carry out and complete more fully and perfectly the work herein agreed to be done and performed.

Additional Work—Charter, Section 419.

(L) No claim for additional work or materials shall be made by or allowed to the Contractor, unless before the performance of such additional work the Commissioner shall have first authorized the same in writing, and the same shall have been done or furnished under a written order from the Commissioner given before the performance of such additional work or the furnishing of such additional materials. The aggregate price to be paid for additional work or materials so authorized or ordered shall not exceed five per cent. (5%) of the contract price or total cost of the work and materials.

All claims for additional work or materials in any month shall be made to the Commissioner, in writing, before the 15th day of the following month, and failing to make such claim within the time required, the rights of the Contractor to pay for such additional work or materials shall be deemed to have been waived and forfeited.

Specifications and Plans to be Reconciled.

(M) The specifications and plans and drawings are intended mutually to explain each other, and anything which is shown on the plans and drawings, and not mentioned or referred to in the specifications, or which is referred to in the specifications and not shown on the plans and drawings, shall be considered as being both so shown and mentioned or referred to, and shall be done and performed accordingly, excepting work which is mentioned in the specifications as being excluded from this contract.

Commissioner and Architect to Correct Errors in Specifications and Drawings.

(N) All the work contemplated and described in this contract and in the specifications and drawings shall be done to the satisfaction of the Architect, who shall have the right of correcting any errors or omissions in the specifications and drawings, when such correction is necessary for the proper completion of the work herein stipulated and for the proper fulfillment of their intention; the action of such correction to date from the time that due notice thereof is given by the Commissioner, it being further understood that such correction shall not increase the price for the work complete as herein agreed upon. The Commissioner shall be the final judge as to the acceptance of the work to be done under this contract.

Architect to Explain.

(O) Any doubt as to the meaning of the specifications and drawings, or any obscurity as to the wording of them, will be explained by the Architect, and all directions and explanations requisite or necessary to complete, explain or make definite any of the provisions of the specifications and drawings and give them due effect will be given by the Architect.

Condemned Material.

(P) If the work, or any material brought on the ground for use in the work, or selected for the same, shall be condemned by the Architect as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such material from the work.

Appliances to Be Efficient.

(Q) The Contractor is to use such appliances for the performance of all the operations connected with the work embraced under this contract as will secure a satisfactory quality of work, and a rate of progress which, in the opinion of the Architect, will secure the completion of the work within the time specified. If at any time before the commencement or during the progress of the work such appliances appear to the Architect to be inefficient or inappropriate for securing the quality of the work required or the said rate of progress, he may order the Contractor to increase their efficiency or to improve their character, and the Contractor must conform to such order; but the failure of the Architect to demand such increase of efficiency or improvement shall not relieve the Contractor from his obligation to secure the quality of work and the rate of progress established in these specificatins.

Party of the First Part to Be Protected Against Infringement of Patents—Charter, Section 1554.

(R) The Contractor, in the prosecution of the work required under this contract, will employ no patented method of construction nor furnish any appliance the operation of which is patented, except such methods or appliances as are either owned or controlled by him, and he will hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the construction and completion of the work, and further agrees that the City shall be and is hereby authorized to deduct and retain out of the moneys which may be due or become due to the Contractor under this agreement, a sum sufficient to cover all claims for damages arising from such infringements, and to retain the same until the settlement or other disposition of said claims.

Time of Performance.

(S) The Contractor will begin the work herein agreed to be performed within five days of the date of certification of the contract by the Comptroller of the City. The Contractor will carry on the work with such force and in such manner and order, and at such times and seasons as may be directed by the Commissioner. He will execute all the work, in every respect, in a thorough and workmanlike manner, and entirely complete the contract on or before the expiration of twelve (12) calendar months.

Suspension of Partial Payments.

No payment will be made for work done or material furnished after the time fixed for the completion of the work, or the time for which the completion may be extended, until the full and final completion of all the work herein agreed upon.

Liquidated Damages.

(T) In case the Contractor shall fail to complete the work hereunder in accordance with the specifications and to the satisfaction of the Commissioner within the time aforesaid, the Contractor shall and will pay to the City the sum of two hundred dollars for each and every calendar day the time consumed in said performance and completion may exceed the time hereinbefore allowed for that purpose; which said sum, in view of the difficulty of ascertaining the loss which the City will suffer by reason of delay in the performance of the work hereunder, is hereby agreed upon, fixed and determined by the parties hereto as the liquidated damages that the City will suffer by reason of said delay and default, and not as a penalty; and the City shall and may deduct and retain the amount of such liquidated damages out of the moneys which may be due or become due to the Contractor under this agreement.

Extension Not a Waiver.

(U) Neither an extension of time, for any reason, beyond the date fixed herein for the completion of the contract, nor the delivery and acceptance of any articles or materials called for by this contract shall be deemed to be a waiver by the Commissioner of the right to abrogate this contract for abandonment or delay in the manner herein provided.

Not to Sublet—Chapter 444, Laws of 1897.

(V) The Contractor will give his personal attention constantly to the faithful prosecution of the work; he will 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 hereof, without the previous consent in writing of the Commissioner indorsed hereon or hereto attached; and he will 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 signified in like manner. 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 other corporation, this contract may, at the option of the Commissioner, 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; 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; 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 Commissioner.

Commissioner May Suspend Work—Ordinances, Section 520.

(W) The Commissioner reserves the right of suspending the whole or any part of the work herein contracted to be done, if he 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, in the opinion of the Architect, delayed by such suspension.

Default of Contractor.

(X) If the work to be done under this agreement shall be abandoned by the Contractor, or if this contract shall be assigned or said work sublet by him, otherwise than as herein specified, or if at any time the Architect shall be of opinion and shall so certify in writing to the Commissioner that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the conditions or covenants of this contract, or executing the contract in bad faith, the Commissioner shall have the power to notify the Contractor to discontinue all work or any part thereof under this contract, by a written notice to be served upon the Contractor, either personally or by leaving said notice at his residence or place of business or with his agent in charge of the work; and thereupon the Contractor shall discontinue said work or such part thereof as the Commissioner may designate, and the Commissioner shall thereupon have the power to contract for the completion of the work in the manner prescribed by law, and to place such and so many persons and obtain by purchase or hire such animals, carts, wagons, implements and tools and materials as the Commissioner may deem advisable, to work at and to be used to complete the work herein described, or such part thereof as he may deem advisable, and to procure materials for the completion of the same, and to charge the cost and expense thereof to the Contractor; and the expense so charged shall be deducted and paid by the City out of such moneys as either may be due or may at any time thereafter become due to the Contractor under and by virtue of this agreement or any part thereof; and in case such expense shall exceed the sum which would have been payable under this contract if the same had been completed by the Contractor, then the Contractor will pay the amount of such excess to the City, and in case such expense shall be less than the sum which would have been payable under this contract if the same had been completed by the Contractor, then the Contractor shall forfeit all right to the balance; and when any particular part of the work is being carried on by the Commissioner by contract or otherwise, under the provisions of this clause of the contract, the Contractor agrees to continue the remainder of the work in conformity with the terms of this agreement, and in such mainer as in nowise to hinder or interfere with the persons or workmen employed as above provided by the Commissioner, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this clause of the contract.

Contractor to Maintain Guards and Lights—Ordinances, section 519.

(Y) The Contractor shall place proper guards for the prevention of accidents, and shall put up and keep up at night suitable and sufficient lights where necessary, during the delivery of the materials or supplies, or the performance of any part of the work, to prevent accidents or injuries to the person or property of another, and he will indemnify and save harmless the City from all suits or actions and damages or costs of every name and description to which the City may be subjected or put by reason of injury to the person or property of another resulting from negligence or carelessness on the part of the Contractor, his servants or agents, in the delivery of the materials and supplies, or by or on account of any act or omission of the Contractor, his servants or agents, and the whole or so much of the moneys due, or to grow due the Contractor under this agreement, as shall or may be considered necessary by the Comptroller of the City, may, at its option, be retained by the City until all suits or claims for damages shall have been settled or otherwise disposed of, and evidence to that effect furnished to the satisfaction of the Comptroller.

Lien—Chapter 418, Laws 1897; chapter 169, Laws 1898.

(Z) If at any time before or within thirty days after the whole work herein agreed to be performed has been 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 Department of Bridges, and with the Comptroller of the City, any such notice or lien as is described in the Lien Law or any lien law of the State of New York, then, and in every case, the City shall retain, anything herein contained to the contrary thereof notwithstanding, from the moneys under its control or due or to grow due under this agreement, so much of such moneys as shall be sufficient to pay off, satisfy and discharge the amount of such notice alleged or claimed to be due to the person or persons filing such notice, together with the reasonable costs of any such action or actions brought to enforce such claims or the lien created by the filing of such notice. The moneys so retained shall be retained by the City until the lien thereon created by the said act and the filing of said notice shall be discharged pursuant to the provisions of the said act.

Price.

(AA) The Contractor shall receive the following prices as full compensation for furnishing all the work, labor, materials, tools, plant and appliances which he has hereinbefore agreed to furnish for the Interior Finish of the Municipal Building, exclusive of the Tower, and in all respects performing and completing all of the work which he has hereinbefore agreed to perform and complete, to wit:

Definite Contract.

1. For all work and construction shown and specified as a part of the definite contract, which covers all work not covered by the contract units, the lump sum of .....dollars ($.....).

Contract Units.

2. For steel door bucks in openings set complete as specified for heights up to and including 13 feet, the sum of.....dollars ($.....) per opening.

2-B. For steel door bucks in openings set complete as specified for heights over 13 feet up to and including 14 feet, the sum of.....dollars ($.....) per opening.

2-C. For steel door bucks in openings set complete as specified for heights over 14 feet, the sum of.....dollars ($.....) per opening.

3-A. For steel brace posts in partitions set complete as specified for heights up to and including 13 feet, the sum of.....dollars ($.....) per post.

3-B. For steel brace posts in partitions set complete as specified for heights over 13 feet up to and including 14 feet, the sum of.....dollars ($.....) per post.

3-C. For steel brace posts in partitions set complete as specified for heights over 14 feet, the sum of.....dollars ($.....) per post.

4. For steel head pieces over partition sash set complete as specified, the sum of .....dollars ($.....) per linear foot.

5. For hollow tile partitions set complete, and including cutting and patching for all trades, as specified, the sum of.....dollars($.....) per square foot.

6. For hollow tile furring less than 4 inches thick as specified, and including cutting and patching, the sum of.....dollars ($.....) per square foot.

7. For cinder concrete fill on fireproof floor arches as specified, and including finished Portland cement mortar top to receive asphalt floors, the sum of .....dollars ($.....) per square foot.

8. For stone concrete fill on fireproof floor arches as specified, and ready to receive mosaic and tile, the sum of.....dollars ($.....) per square foot.

9-A. For cement finished floors, including cinder concrete foundation as specified, the sum of.....dollars ($.....) per square foot.

9-B. For rock asphalt finished floors as specified (asphalt only) the sum of .....dollars ($.....) per square foot.

9-C. For cork finished floors, including cinder concrete and all foundations from floor arch up, the sum of.....dollars ($.....) per square foot.

9-D. For cork cove base and scribing piece as specified, the sum of..... ..... dollars ($.....) per linear foot.

10. For waterproofing floors, including vertical work on walls and mortar leveling under waterproofing on floors, all as specified, the sum of..... ..... dollars ($.....) per square foot.

11. For copper sleeves around pipes running through waterproofing as specified, the sum of.....dollars ($.....) per sleeve.

12-A. For iron furring and lathing vertical surfaces as specified, the sum of ..... dollars ($.....) per square foot.

12-B. For iron furring and lathing horizontal surfaces as specified, the sum of ..... dollars ($.....) per square foot.

12-C. For metal corner beads set complete as specified, the sum of..... ..... dollars ($.....) per linear foot.

13-A. For plastering on masonry walls, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

13-B. For plastering on metal lath walls, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

13-C. For Keene cement plastering on masonry walls in toilets as specified, the sum of ..... dollars ($.....) per square yard.

13-D. For Keene cement plastering on metal lath walls in toilets as specified, the sum of ..... dollars ($.....) per square yard.

14-A. For plastering on masonry ceilings, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

14-B. For plastering on metal lath ceilings, including patching, as specified, the sum of ..... dollars ($.....) per square yard.

14-C. For Keene cement plastering on masonry ceilings in toilets as specified, the sum of ..... dollars ($.....) per square yard.

14-D. For Keene cement plastering on metal lath ceilings in toilets as specified, the sum of ..... dollars ($.....) per square yard.

15. For hollow metal cornice, including access sections and framing, as specified, the sum of ..... dollars ($.....) per linear foot.

16-A. For corridor marble wainscot dado set complete as specified, the sum of ..... dollars ($.....) per square foot.

16-B. For corridor marble wainscot base set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-C. For corridor marble wainscot cap set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-D. For corridor marble door architraves set complete as specified, the sum of ..... dollars ($.....) per linear foot.

16-E. For corridor marble architrave plinths set complete as specified, the sum of ..... dollars ($.....) per plinth.

16-F. For corridor marble door jamb linings set complete as specified, the sum of ..... dollars ($.....) per plinth.

16-G. For marble mosaic floors with borders in corridors as specified, the sum of ..... dollars ($.....) per square foot.

17-A. For glass wainscot set complete as specified, the sum of..... ..... dollars ($.....) per square foot.

17-B. For glass water closet partitions set complete as specified, the sum of..... ..... dollars ($.....) per square foot.

17-C. For toilet room marble partition cap set complete as specified, the sum of ..... dollars ($.....) per linear foot.

17-D. For toilet room marble door stiles to water closet compartments set complete as specified, the sum of .....dollars ($.....) per linear foot in height.

17-E. For toilet room marble window sills set complete as specified, the sum of ..... dollars ($.....) per linear foot.

17-F. For marble safes under water closets set complete as specified, the sum of ..... dollars ($.....) per safe.

17-G. For toilet room marble door trims set complete and as specified, the sum of ..... dollars ($.....) per linear foot.

17-H. For marble mosaic floor (no border) as specified, the sum of..... ..... dollars ($.....) per square foot.

17-I. For the marble and tile for one two-stall urinal set complete as specified, the sum of ..... dollars ($.....).

17-J. For toilet room marble base set complete as specified, the sum of..... ..... dollars ($.....) per linear foot.

18-A. For slop sink closet marble wainscot set complete as specified, the sum of ..... dollars ($.....) per square foot.

18-B. For slop sink closet marble floor safes under sinks set complete as specified, the sum of ..... dollars ($.....) per safe.

18-C. For tile floors as specified, the sum of....., dollars ($.....) per square foot.

19-A. For slate base in connection with asphalt floors set complete as specified, the sum of ..... dollars ($.....) per linear foot.

19-B. For slate plinth blocks set complete as specified, the sum of..... .....Dollars ($.....) per plinth.

20-A. For corridor marble saddles set complete as specified, the sum of..... .....Dollars ($.....) per linear foot.

20-B For toilet and slop sink closet marble saddles set complete as specified, the sum of.....dollars ($.....) per linear foot.

20-C. For marble saddles to openings to asphalt floored spaces set complete as specified, the sum of.....dollars ($.....) per linear foot.

21-A. For marble base set complete as specified in connection with steel base, the sum of.....dollars ($.....) per linear foot.

21-B. For marble plinths under steel architrave trims set complete as specified, the sum of.....dollars ($.....) per plinth.

21-C. For marble plinths under door jambs set complete as specified, the sum of .....dollars ($.....) per plinth.

22-A. For marble wainscot, including returns, back of isolated lavatories in offices as specified, the sum of.....dollars ($.....) per square foot.

22-B. For marble cap over Unit 22-A, 2¼ inches by 1⅜ inches, as specified, the sum of.....dollars ($.....) per linear foot.

22-C. For marble cap over Unit 22-A, 6 inches by 1⅜ inches, as specified, the sum of.....dollars ($.....) per linear foot.

22-D. For marble floor slabs under Unit 22-A as specified, the sum of..... .....dollars ($.....) per square foot.

23-A. For marble mosaic floors in private stair-halls as specified, the sum of.... .....dollars ($.....) per square foot.

23-B. For marble mosaic floors in miscellaneous public spaces as specified, the sum of.....dollars ($.....) per square foot.

24. For hollow metal picture molding, including grounds, set and finished complete as specified, the sum of.....dollars ($.....) per linear foot.

25-A. For stationary corridor hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-B. For pivoted corridor hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-C. For stationary interior hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-D. For pivoted interior hollow metal partition sash, frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of..... .....dollars ($.....) per square foot.

25-E. For single light corridor hollow metal partition sash (50 per cent. pivoted, 50 per cent. stationary), frames and trim, with glass, hardware and grounds, set and finished complete as specified, the sum of.....dollars ($.....) per square foot.

26. For hollow metal base, including grounds, set and finished complete, as specified, the sum of.....dollars ($.....) per linear foot.

27. For hollow metal pipe shaft and valve pocket doors, including frames, trim, grounds and setting of hardware, all complete, as specified, the sum of..... .....dollars ($.....) per opening.

28. For hollow metal water closet compartment and retiring room doors, including setting of hardware, all complete, as specified, the sum of..... .....dollars ($.....) per opening.

29. For hollow metal frames and trim to wicket openings, including reinforcement for grilles and shelf, grounds, and punching, set and finished complete, as specified, the sum of .....dollars ($.....) per opening.

30-A. For hollow metal doors with transom, including either glass or metal panels, with jambs, transom and transom sash, but no architrave trim, to include also grounds, setting of hardware and any necessary drilling and tapping of rough steel, the measurements to be taken inside of jambs, all finished complete, as specified, for openings 3 feet or less in width by 10 feet or less high, the sum of..... .....dollars ($.....) per opening.

30-B. For all work as specified for Unit 30-A for openings 3 feet or less in width by over 10 feet up to and including 11 feet 6 inches high, the sum of.....

.....dollars ($.....) per opening.

30-C. For all work as specified for Unit 30-A for openings 3 feet or less in width by over 11 feet 6 inches high, the sum of.....
.....dollars ($.....) per opening

30-D. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width by 10 feet or less in height, the sum of.....
.....dollars ($.....) per opening.

30-E. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 10 feet up to and including 11 feet 6 inches in height, the sum of.....dollars ($.....) per opening.

30-F. For all work as specified for Unit 30-A for openings over 3 feet up to and including 3 feet 6 inches in width and over 11 feet 6 inches in height, the sum of....
.....dollars ($.....) per opening.

30-G. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) by 10 feet or less high, the sum of.....
.....dollars ($.....) per opening.

30-H. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) and over 10 feet up to and including 11 feet 6 inches high, the sum of.....dollars ($.....) per opening.

30-I. For all work as specified for Unit 30-A for openings over 3 feet 6 inches in width (double doors) and over 11 feet 6 inches high, the sum of.....
.....dollars ($.....) per opening.

31-A. For hollow metal doors without transoms, including either glass or metal panels and jambs and heads, but without architrave trims, to include also grounds, setting of hardware and any necessary drilling or tapping of rough steel, the measurements to be taken inside of jambs, all finished complete, as specified, for openings 3 feet or less in width by 7 feet 4 inches high, the sum of.....
Dollars ($.....) per opening.

31-B. For all work as specified for Unit 31-A for openings over 3 feet up to and including 3 feet 6 inches in width by 7 feet 4 inches high, the sum of.....
.....Dollars ($.....) per opening.

31-C. For all work as specified for Unit 31-A for openings over 3 feet 6 inches in width (double doors) by 7 feet 4 inches high, the sum of.....
Dollars ($.....) per opening.

32-A. For hollow metal door achitrave trims (one side of partition only), to include grounds and plinths, measurements taken between jambs and from finished floor level, for openings 3 feet or less in width by 7 feet 4 inches high, the sum of
.....Dollars ($.....) per opening.

32-B. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by 7 feet 4 inches high, the sum of.....
.....Dollars ($.....) per opening.

32-C. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 7 feet 4 inches up to and including 10 feet high, the sum of.....
.....Dollars ($.....) per opening.

32-D. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 10 feet up to and including 11 feet 6 inches, the sum of.....
.....Dollars ($.....) per opening.

32-E. For all work as specified for Unit 32-A for openings 3 feet or less in width and over 11 feet 6 inches high, the sum of.....
Dollars ($.....) per opening.

32-F. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 7 feet 4 inches up to and including 10 feet high, the sum of.....Dollars ($.....) per opening.

32-G. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 10 feet up to and including 11 feet 6 inches high, the sum of.....Dollars ($.....) per opening.

32-H. For all work as specified for Unit 32-A for openings over 3 feet up to and including 3 feet 6 inches in width by over 11 feet 6 inches high, the sum of.....
.....Dollars ($.....) per opening.

32-I. For all work as specified for Unit 32-A for openings over 3 feet 6 inches in width (double doors) by 10 feet or less in height, the sum of.....
.....Dollars ($.....) per opening.

32-J. For all work as specified for Unit 32-A for openings over 3 feet 6 inches in width (double doors) and over 10 feet up to and including 11 feet 6 inches high, the sum of.....Dollars ($.....) per opening.

32-K. For all work as specified for Unit 32-A for openings over 3 feet 6 inches in width (double doors) and over 11 feet 6 inches high, the sum of.....
.....Dollars ($.....) per opening.

33-A. For finishing hardware for doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders, the sum of.....
.....Dollars ($.....) per opening.

33-B. For finishing hardware for doors, inter-connecting type locks, hardware complete, except door checks, stops and holders, the sum of.....
.....Dollars ($.....) per opening.

33-C. For finishing hardware for double doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders, the sum of.....
.....Dollars ($.....) per opening.

33-D. For finishing hardware for doors, uniform type locks, hardware complete, except door checks, stops and holders, for entrance doors from vestibules or passages to toilet rooms, slop sink closets, storage and filing spaces and closets, the sum of
.....Dollars ($.....) per opening.

33-E. For finishing hardware for doors, uniform type latches operated by knobs only from both sides (no key), hardware complete, except door checks, stops and holders, for doors between vestibules to toilet rooms and corridors, the sum of
.....Dollars ($.....) per opening.

33-F. For finishing hardware for doors to inter-communicating stairs, hardware complete, except door checks, stops and holders, the sum of.....
.....Dollars ($.....) per opening.

33-G. For finishing hardware for water closet compartment doors, hardware complete, the sum of .....Dollars ($.....) per opening.

33-H. For finishing hardware for retiring room doors, hardware complete, the sum of.....Dollars ($.....) per opening.

33-I. For furnishing hardware for pipe shaft and valve pocket doors, harware complete, the sum of.....Dollars ($.....) per opening.

33-J. For finishing hardware for doors to pipe spaces, hardware complete, the sum of.....Dollars ($.....) per opening.

33-K. For door stops as specified, the sum of.....
Dollars ($.....) per dozen.

33-L. For door checks as specified, the sum of.....
Dollars ($.....) per check.

33-M. For door holders as specified, the sum of.....
Dollars ($.....) per dozen.

34. For painting cement floor, including paper protection, as specified, the sum of
.....Dollars ($.....) per square foot.

35-A. For water closets of type specified installed complete, with waste, vent and supply connections, the sum of.....Dollars ($.....) per closet.

35-B. For water closets to conform with the specification but with back outlets, installed complete, with waste, vent and supply connections, the sum of.....
.....Dollars ($.....) per closet.

36. For urinals as specified, installed complete, with waste, vent and supply connections, the sum of.....Dollars ($.....) per urinal.

37-A. For lavatories with drinking water connections, within 5 feet of stack, installed complete, with waste, vent and supply connections as specified, the sum of ..... dollars ($.....) per lavatory.

37-B. For lavatories with drinking water connections, beyond 5 feet and less than 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

37-C. For lavatories with drinking water connections, beyond 15 feet from stack, installed complete, with waste, vent and supply connections, as specified, the sum of.....dollars ($.....) per lavatory.

38-A. For lavatories without drinking water connections, within 5 feet of stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

38-B. For lavatories without drinking water connections, beyond 5 feet and less than 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

38-C. For lavatories without drinking water connections, beyond 15 feet from stack, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per lavatory.

39. For slop sinks, installed complete, with waste, vent and supply connections as specified, the sum of.....dollars ($.....) per sink.

40-A. For vacuum outlets within 5 feet of riser, installed complete, with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

40-B. For vacuum outlets, beyond 5 feet and less than 15 feet from riser, installed complete, with connection to riser, as specified, the sum of.....
.....dollars ($.....) per outlet.

40-C. For vacuum outlets, beyond 15 feet from riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

41-A. For gas outlets within 5 feet of riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

41-B. For gas outlets beyond 5 feet and less than 15 feet from riser, installed complete with connection to riser, as specified, the sum of.....
dollars ($.....) per outlet.

41-C. For gas outlets beyond 15 feet from riser, installed complete with connection to riser, as specified, the sum of.....dollars ($.....) per outlet.

42. For electric ceiling outlets as specified, the sum of.....
dollars ($.....) per outlet.

43. For electric bracket outlets as specified, the sum of.....
dollars ($.....) per outlet.

44. For electric insertion plug outfits, including outlet boxes, as specified, the sum of.....dollars ($.....) per outfit.

45. For local electric push-button switch, including outlet box, as specified, the sum of.....dollars ($.....) per switch.

46. For electric wall receptacle, including outlet box, as specified, the sum of.....dollars ($.....) per receptacle.

47. For electric floor outlet boxes for lighting system, as specified, the sum of.....dollars ($.....) per box.

48. For electric floor outlet boxes for interconnection system, as specified, the sum of.....dollars ($.....) per box.

49. For electric ceiling extension outlets, as specified, the sum of.....
.....dollars ($.....) per outlet.

50. For electric junction boxes for branch circuit connections, the sum of
.....dollars ($.....) per box.

51. For electric 10-branch circuit cutout panels, as specified, the sum of
.....dollars ($.....) per panel.

52. For empty telephone cabinets as specified, the sum of.....
dollars ($.....) per cabinet.

53. For electric floor interconnection boxes as specified, the sum of.....
.....dollars ($.....) per box.

54. For electric outlet boxes for wall telephones as specified, the sum of
.....dollars ($.....) per box.

55. For No. 14 duplex wire installed in ½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

56. For No. 12 duplex wire installed in ¾-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

57. For three No. 8 conductors installed in 1-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

58. For three No. 6 conductors installed in 1¼-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

59. For three No. 5 conductors installed in 1¼-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

60. For three No. 3 conductors installed in 1½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

61. For three No. 2 conductors installed in 1½-inch conduit as specified, including conduit, the sum of.....dollars ($.....) per linear foot.

62. For empty conduits, ½-inch size, as specified, the sum of.....
.....dollars ($.....) per linear foot.

63. For empty conduit, 1½-inch size, as specified, the sum of.....
..... dollars ($.....) per linear foot.

64. For electric service boxes complete, including all connections, as specified, the sum of..... dollars (.....) per box.

65. For electric 10-wire service line, consisting of ten No. 18 rubber-covered wires installed in 1-inch conduit as specified, including conduit, the sum of.....
..... dollars ($.....) per linear foot.

66. For electric ten No. 14 wire cable installed in 1¼-inch conduit, as specified, including conduit, the sum of.....
dollars ($.....) per linear foot.

67. For electric 50-wire cable installed in 1¼-inch conduit as specified, including conduit, the sum of..... dollars ($.....) per linear foot.

68. For empty 1-inch conduit installed under door saddles, connecting each end with a small pull box located behind the top members of baseboard at each side of the door, including pull boxes, as speciled, the sum of.....
dollars ($.....) per installation.

69. For empty ¾-inch conduit originating at pull box near ceiling and terminating at a pull box located behind top member of baseboard, including pull boxes, as specified, the sum of..... dollars ($.....) per installation.

The above prices are to be paid for the actual quantities of the several classes of work in the completed work or structure, and they cover the cost of all work, labor, materials, tools, plant and appliances necessary to complete the entire work, as specified, all the cost of tests, inspection and models, as hereinafter specified, and the removal of all debris, temporary work or appliances, and of all obstructions necessary to the performance of the work.

Progress Payments—Ordinances, Section 518.

(BB) In order to enable the Contractor to prosecute the work advantageously, the Architect shall, from time to time, as the work progresses, not oftener than once a month, make an estimate of the amount of work done under this contract since the last preceding estimate was made, and of the value thereof, according to the terms of this contract.

The schedule of prices upon which partial estimates for work under the Definite Contract (Item 1) are to be based will be made by the Architect subject to the approval of the Commissioner.

Upon each such partial estimate being made and signed by the Architect and the Commissioner, and the filing thereof in the office of the Comptroller of the City, ninety (90) per cent. of such estimated value shall be paid to the Contractor; 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 per cent. above mentioned, to be retained and reserved such sum or sums as may be lawfully retained under any of the provisions herein contained for that purpose, or under any law of the State or under any ordinance of the Municipal Assembly or Board of Aldermen, or its successors, passed prior to the date of this agreement, and now in force.

Final Payment.

No payment will be made in contravention of the provisions of paragraph S.

And whenever, in the opinion of the Architect, the Contractor shall have completely performed this contract on his part, the Architect shall certify the same in writing to the Commissioner, together with his estimate of the whole amount of materials furnished and work done in such performance by the Contractor, and of the value of such work and materials under and according to the terms of the contract. When said certificate shall have been approved and signed by the Commissioner and the same has been filed with the Comptroller, the City will, on or before the expiration of thirty days after such completion and delivery of said certificate, pay, and it hereby binds itself to pay, to the Contractor, in cash, the whole amount of money accruing to the Contractor under this contract, excepting such sum or sums as shall have been paid to the Contractor under any of the foregoing provisions of this contract, and such as may be lawfully retained under any of the provisions of this contract hereinbefore set forth, and such further sum as may be retained under the provisions of section (NN) of the contract for the purpose of insuring the guarantees therein provided, provided that nothing herein contained be construed to affect the right hereby reserved by the Commissioner to reject the whole or any portion of the aforesaid work, should the said certificates or any of them be known to be inconsistent with the terms of this agreement or otherwise improperly given.

Charter, Section 422.

(CC) The payments herein provided for are to be made out of moneys provided for th e prosecution of the work of constructing the Municipal Building by the City, and these presents do not bind the Commissioner or his successors personally; but his actions in the premises are official only and binding the City and the funds specially provided for such purpose, in conformity with the laws under which authority was vested in the Commissioner to proceed with the construction of the Municipal Building, and pursuant to the Greater New York Charter.

Conditions Precedent.

(DD) The Contractor shall not be entitled to demand or receive payment for the work or materials, or any portion thereof, except in the manner set forth in this agreement, nor unless each and every one of the promises, agreements, stipulations, terms and conditions herein contained on his part to be performed, kept, observed and fulfilled, has been performed, kept, observed and fulfilled, and the Architect shall have given his certificate to that effect.

Estoppel.

(EE) 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 Commissioner, any Architect or other officer, agent or appointee of the City under any provision of this agreement 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 and character of the work done and materials furnished by the Contractor, or any other person unler 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 loss as it may sustain by reason of his failure to comply with the specifications.

Final Certificate.

(FF) The action of the Architect, by which the Contractor is to be bound and concluded according to the terms of this contract, shall be that evidenced by his final certificate, all prior certificates or estimates upon which partial payments may be made being merely estimates, and being made for an amount that shall represent the ratio that the cost of the work done and materials furnished bears to the cost of the total amount of work and materials required by, and to be furnished under the contract, and which estimates are subject to the corrections of such final certificate, which may be made without notice to the Contractor thereof, or of the measurements upon which the same is based.

Character of Employees.

(GG) The Contractor shall employ, upon all parts of the work herein contracted for, only competent and trustworthy men, and should the Architect subject to the approval of the Commissioner at any time give notice in writing to the Contractor or his representative on the work that any employee is insolent, disorderly, careless, unobservant of instructions, dishonest, or in any way a detriment to the satisfactory progress of the work, such employee shall at once be dismissed and not again allowed upon the work; he will have and keep at all times on the work during the progress of the same an expert and reliable foreman or superintendent, who shall have on hand at all times copies of drawings, specifications and contract, and all instructions given to such foreman or superintendent shall be deemed as having been given to the Contractor.

(HH) The Contractor shall take proper precautions, under the directions of the Architect, to protect the finished work from injury pending the completion of the entire contract. Such precautions shall not relieve the Contractor from the obligation to make good any damage which may be incurred during construction.

Comptroller's Certificate—Charter, Section 149.

(II) This contract shall not be binding or of any force unless the Comptroller of the City shall indorse hereon his certificate that there remains unexpended and unapplied, as provided in the Greater New York Charter, a balance of the appropriation or fund applicable thereto sufficient to pay the estimated expense of executing this contract, as certified by the officers making the same.

Notice to Contractor.

(JJ) The residence or place of business given in the bid or estimate upon which this contract is founded is hereby designated as the place where all notices, letters or other communications shall be served, mailed or delivered. Any notice, letter or other communication addressed to the Contractor and delivered at the above-named place, or deposited in a post-paid wrapper in any post-office box regularly maintained by the post-office, shall be deemed sufficient service thereof upon the Contractor. The place named may be changed at any time by an instrument in writing, executed and acknowledged by the Contractor and delivered to the Commissioner. Nothing herein contained shall be deemed to preclude or render inoperative service of any notice, letter or other communication upon the Contractor personally.

Permits.

(KK) All permits, of whatever nature, necessary for the prosecution of this work shall be obtained by the Contractor. In all operations under this contract, the Contractor agrees that he will comply with the provisions of all Federal and State laws and all ordinances of the City which may affect such operations.

Labor Law.

(LL) The Contractor agrees that he will comply with the provisions of the Labor Law. He further agrees 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 the contract shall be permitted or required to work more than eight hours in any one calendar day, except in case of extraordinary emergency, caused by fire, flood or danger to life or property; that the wages to be paid for a legal day's work to all classes of such laborers, workmen or mechanics upon this public work or upon any material to be used thereon shall not be less than the prevailing rate for a day's work in the same trade or occupation in the locality where such public work is being constructed. Each such laborer, workman or mechanic shall receive not less than the prevailing rate of wages. This contract shall be void and of no effect unless the person or corporation making or performing the same shall comply with the provisions of sections 3 and 14 of the Labor Law.

Approval of Art Commission—Charter, Section 637.

(MM) All works of art, including paintings, mural decorations, stained glass, statues, bas-reliefs and other sculpture, monuments, fountains, arches and other structures of a permanent character intended for ornament or commemoration, and every design of the same to be used in the porformance of this contract, and the design of all buildings, bridges, approaches, gates, fences, lamps, or structures to be erected pursuant to the terms of this contract, shall be submitted to the Art Commission and must be approved by the Art Commission prior to the erection or placing in position of the same. The final payment shall not become due or payable under this contract unless and until the Art Commission shall certify that the design for the work herein contracted for has been approved by the said Commission, and that the same has been executed in substantial accordance with the design so approved, pursuant to chapter 675 of the Laws of 1907.

Guarantee.

(NN) The Contractor shall make good, without cost to the City, any defects due to faults in material or workmanship that may appear in the work covered by this contract, or any portion thereof, for a term of one year after the issuance of the final estimate. In order to insure this, the City shall retain from the final estimate of the Contractor the sum of $50,000 for a period of one year after the issuance of the final estimate. At the expiration of the said year, after the issuance of the final estimate, the City shall retain from the above amount, the sum of $11,650 for a further period of one year, for insuring certain classes of work as set forth hereinafter under the specifications accompanying this contract, viz: waterproofing work, paragraph 69 of the specifications; copper work, paragraph 128 of the specifications; hollow metal construction, paragraph 174 of the specifications; mickle plated hardware, paragraph 237 of the specifications; return line vacuum system, paragraph 380 of the specifications; thermostatic regulation, paragraph 396 of the specifications.

If the Contractor fails to make good any defects covered by the above insurance within three days after receiving notice from the Commissioner so to do, the Commissioner shall have the power to cause the repairs to be made and to pay the cost thereof out of the amounts retained. At the expiration of the period or periods above named, the Architect shall furnish to the Commissioner a certificate or certificates showing the balance or balances due the Contractor after deducting such sum or sums as may have been expended by the Commissioner for repairs according to the terms of this paragraph. When the said certificate or certificates shall have been approved and signed by the Commissioner and filed with the Comptroller, the City will, on or before the expiration of thirty days after the completion and delivery of said certificate or certificates, pay to the Contractor, in cash, the amount or amounts of the certificate or certificates so filed.

In witness whereof, the Commissioner of Bridges has hereunto set his hand on behalf of The City of New York, and the Contractor has also hereunto set his hand, the day and year first above written; and the Commissioner and Contractor 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, and the third to be delivered to the Contractor the day and date herein first above written.

.....
Commissioner of Bridges.
.....
.....
Contractor(s).

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

On this.....day of....., 1912, before me personally came Arthur J. O'Keeffe, to me known and known to me to be the Commissioner of Bridges, the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same as such Commissioner for the purposes therein mentioned.

.....
Notary Public or Commissioner of Deeds.

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

On this.....day of....., 1912, before me severally and personally came .....to me known and known to me to be the.....of the..... Company, and .....to me known and known to me to be the.....of the.....Company, and who, being by me severally duly sworn, did say, each for himself, as follows:

The said.....that he is the..... of said Company, and the said.....that he is the .....of said Company; that he knows the corporate seal of said Company; that the seal affixed to the foregoing instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company, and that by like order he thereto signed his name and official designation.

.....
Notary Public or Commissioner of Deeds.

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

On this.....day of.....1912, before me personally came .....to me known and known to me to be the same person(s) described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same for the purposes therein mentioned.

.....
Notary Public or Commissioner of Deeds.

Know all men by these presents, that we,.....
.....of The City of New York, are held and firmly bound unto The City of New York (in the sum of one million dollars ($1,000,000), lawful money of the United States of America, to be paid to The City of New York, or to its certain attorneys, successors or assigns; for which payment, well and truly to be made, we bind ourselves and our several and respective heirs, executors and administrators, jointly and severally, firmly by these presents.

Sealed with our seals. Dated this.....day of.....in the year one thousand nine hundred and twelve.

Whereas, The about bounden.....
by an instrument in writing, under hand and seal , and bearing even date with these presents, ha contracted with The City of New York to perform all the work and furnish all the materials and plant called for in the preceding contract,

For the Interior Finish of the Municipal Building, Exclusive of the Tower.

now therefore, the conditions of the above obligations are such that if the said above bounden.....or assigns, shall well and truly, and in a good, sufficient and workmanlike manner, perform the work mentioned in the aforesaid agreement, in accordance with the terms and provisions therein stipulated, and in each and every respect comply with the conditions and covenants therein contained, then this obligation to be void; otherwise to remain in full force and virtue.

.....[L. S.]
.....[L. S.]
.....[L. S.]
.....[L. S.]

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

On this.....day of ....., 1912, before me severally and personally came.....to me known and known to me to be the.....of the..... Company, and.....to me known and known to me to be the.....of said..... Company, who, being by me severally duly sworn, did say, each for himself, as follows:

The said.....that he is the..... of said Company, and the said.....that he is the .....of said Company; that he knows the corporate seal of said Company; that the seal affixed to the foreging instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company, and that by like order he thereunto signed his name and official designation.

.....Notary Public, No....., New York County.

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

I, ...of said City, being duly sworn, do depose and say, that I am a.....holder in The City of New York, and..... street, in the City, and that I am worth the sum of one million dollars ($1,000,000), over and above all my debts and liabilities, including my liabilities as bail, surety and otherwise, and over and above all my property which is exempt by law from execution.

.....

Subscribed and sworn to before me this.....day of....., 1912.

.....Notary Public or Commissioner of Deeds.

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

I, ..., of said City, being duly sworn, do depose and say, that I am a.....holder in The City of New York, and..... street, in the City, and that I am worth the sum of one milion dollars ($1,000,000), over and above all my debts and liabilities, including my liabilities as bail, surety and otherwise, and over and above all my property which is exempt by law from execution.

.....

Subscribed and sworn to before me this.....day of....., 1912.

.....Notary Public or Commissioner of Deeds.

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

On this.....day of....., 1912, before me personally came .....to me personally known and known to me to be the same persons described in and who executed the foregoing obligations, and severally acknowledged that they executed the same for the purposes therein mentioned.

.....Notary Public or Commissioner of Deeds.

BOND ACCOUNT.

COMMISSIONER'S CERTIFICATE.

In conformity with the provisions of section 149 of the Greater New York Charter, it is hereby certified that the estimated cost of the work, materials and supplies required by the within contract, amounting to..... dollars ($.....), is chargeable to the fund of the Department of Bridges, entitled "C.D.B.--37, Municipal Building, Construction of—Manhattan Terminal of New York and Brooklyn Bridge."

.....Commissioner of Bridges.

The City of New York....., 1912.

COMPTROLLER'S CERTIFICATE.

The City of New York, ..., 1912.

In pursuance of the provisions of section 149 of the Greater New York Charter, I hereby certify that there remains unapplied and unexpended a balance of the fund, entitled "C. D. B.—37, Municipal Building, Construction of—Manhattan Terminal of New York and Brooklyn Bridge," applicable to this contract, sufficient to pay the estimated expense of executing the same, viz.:

..... dollars ($.....)

.....Comptroller.

SPECIFICATIONS.

FOR THE INTERIOR FINISH OF THE MUNICIPAL BUILDING, EXCLUSIVE OF THE TOWER, AT THE MANHATTAN TERMINAL OF THE BROOKLYN BRIDGE IN THE CITY OF NEW YORK.

McKim, Mead & White, Architects, 160 Fifth Avenue, New York City.

1. The following stipulations, specifications and description of materials, defined and described as the specifications, are hereby declared and made a part and parcel of the contract made and executed on the.....day of....., 1912, by and between the parties hereto, for the same work or public improvement herein and above described, and which specifications are referred to as such therein.

2. The plans herein referred to bear the general title "City of New York, Department of Bridges, Municipal Building," and are designated by the following numbers, viz.:

Nos. 999 to 1028, inclusive, and 1034, General Plans.
Nos. 1050 to 1072, inclusive, General Details.
Nos. 1001-E, 1004-E, 1005-E, 1050-E to 1056-E, inclusive, Electric Work.
Nos. 1001-H to 1027-H, inclusive, and 1050-H, Heating Work.
Nos. 1004-P, 1006-P, 1050-P and 1051-P, Plumbing Work.

GENERAL CONDITIONS.

Materias.

3. All of the materials required to complete this contract as shown on the working plans, detail drawings, described in the specifications, and as may be directed by the Architects, shall be the best of their respective kinds and be furnished in ample quantities to prevent any delay in the progress of the work.

Patents.

4. Whenever and wherever an article of any class of materials is specified by the name of any particular patentee, manufacturer or dealer or by reference to the catalogue of any such manufacturer or dealer, it shall be taken as intending to mean and specify the article or materials described or any other equal thereto in quality, finish and durability, and equally as serviceable in the opinion of the Architects for the purposes for which it is or they are intended. Nothing in these specifications shall be interpreted or taken to violate the provisions of section 1554 of the Greater New York Charter, which provides that "except for repairs, no patented pavement shall be laid, and no patented article shall be advertised for, contracted for, or purchased, except under such conditions that there can be a fair and reasonable opportunity for competition, the conditions to secure which shall be prescribed by the Board of Estimate and Apportionment."

Samples.

5. The Contractor shall submit samples of materials and specimens of labor and finish specified for and intended to be used in or on the building for the Architects' approval. All samples shall be sent in duplicate, one to the Architects' office, the other to the Bridge Department. All materials and workmanship furnished for the building shall equal in every respect the sample furnished.

Workmanship.

6. All workmanship shall be of the best, and none but skilled mechanics in the various trades shall be employed on the building. Incompetent, careless or negligent men must be discharged by the Contractor when requested by the Architects, with the approval of the Commissioner. The building shall be in charge of a competent general foreman or superintendent employed by the Contractor until its completion, unless discharged for cause, in which event he must be replaced by another general foreman satisfactory to the Architects.

Detail Drawings.

7. The Architects will furnish detail drawings of all work, ornamental and otherwise, to be done on the building by the Contractor, but any copies of such detail drawings required shall be made by the Contractor at his own expense.

The detail drawings shall in each case govern in preference to what the general drawings may show for the same work. Any work constructed without these drawings and details, and not in accordance with same, must be removed and replaced by the Contractor at his own expense.

Figured dimensions must always be given preference over dimensions scaled from the drawings, but the Contractor will be required to verify their correctness before beginning the work, and should he find what he considers an error, he must bring it to the attention of the Architects.

Working Drawings.

8. The Contractor shall take measurements at the building and furnish templates for all work and make all necessary shop drawings, setting plans, etc., at his own expense, which he must submit to the Architects for approval before commencing the work. The Architects will correct any errors discovered in them, but failure to discover errors on the Architects' part shall not relieve the Contractor from responsibility for the proper fitting and construction of the work nor from the necessity of furnishing material or performing work required by the drawings and specifications which may not be indicated on the shop drawings when approved. The Contractor shall furnish both the Commissioner and the Architects with three (3) prints of each shop drawing.

Tools, Implements, Etc.

9. The Contractor shall furnish all labor and material and also transportation and sufficient tools, implements, planking, scaffolding, runs, horses, centers, templates, forms, models, derricks, lifts, machines and appliances of every description necessary or required for executing and completing in the best and most thorough manner all of the work specified herein.

The Contractor shall also furnish for himself all storage, docking and unloading facilities.

The Contractor may use the elevator equipment which will be installed under another contract, exclusive of the cars, but he shall pay for all current used during the construction, and at completion he shall repair the apparatus and turn same over in perfect condition. The Contractor shall provide his own cars for use in connection with the elevator equipment.

Plans of Plant to be Submitted.

10. Before beginning the work the Contractor shall submit to the Commissioner, and secure his approval of, plans of plant and specifications as to methods of construction and handling material which he proposes to adopt in the execution of the contract. The Commissioner's approval of construction plant and method of conducting the work shall in nowise relieve the Contractor of responsibility for their strength, safety and efficiency.

Improper Materials and Labor.

11. All materials or workmanship which, in the opinion of the Commissioner or the Architects, is not up to the standard of the specifications shall be removed and replaced by the Contractor, and all work disturbed by these changes must be made good by the Contractor at his own expense.

Decision of Architects.

12. The decision of the Architects shall be final, subject to the approval of the Commissioner, upon all questions covering materials and workmanship.

The Architects shall interpret the drawings and specifications, and should their intent in any case be not clear to the Contractor, he must request the Architects to interpret same, and their interpretation shall be binding on the Contractor upon the approval thereof by the Commissioner.

Omissions.

13. All the various drawings are intended to co-operate with and to form a part of the specifications and the accompanying contract. All notes, interlineations, details, etc., shown on the drawings or details shall be considered as part of and as illustrating the specifications. Anything not shown on the drawings, but which is mentioned in the specifications, or vice-versa, or anything not expressly set forth in either, but which is reasonably implied, shall be furnished and performed as though specially shown on the drawings and mentioned in the specifications.

It must be understood by the Contractor that should any item of minor importance, such as an iron lintel, anchor, bolt, framing, hardware, etc., be omitted from the drawings and specifications, but which may be found necessary to complete the work, the same shall be furnished and erected as though specially shown on the drawings and mentioned in the specifications at no cost additional to the contract price.

Inspection.

14. Ample facilities shall be furnished at all times to the Commissioner, the Architects and their assistants for inspecting the work in the field and at the works where materials are in process of manufacture or treatment.

Models.

15. The Contractor shall furnish all models required by the Architects, and shall allow the sum of $5,000.00 for making same. The models shall be made at such times as the Architects will direct, and no models shall be made except by such modelers as are approved by them.

The sub-contract for the models shall not be awarded until authorized by the Commissioner, and before payment will be made on same the Contractor shall deliver to the Commissioners receipted vouchers from the sub-contractor. Should the amount of the sub-contract be less than the amount stated above the difference shall revert to The City.

Laying Out Work.

16. All work of every character and description must be laid out on the premises or otherwise by the Contractor, who will be held responsible for its correctness and for any errors he may make.

Watchmen.

17. The Contractor shall maintain his own watchmen, and the care of the building and whatever belongs thereto, and the responsibility for same shall be with the Contractor during the progress of, and until the completion and delivery of the work to The City of New York.

Toilet.

18. The Contractor shall maintain in a clean and sanitary condition and until the completion of this contract, the temporary watercloset accommodations specified under Plumbing Work.

Water Supply.

19. The Contractor shall furnish an ample supply of clean water for use in the building operations, as specified under Plumbing Work, paying all charges for same and providing all labor, barrels, hose or other implements required in connection therewith.

All work installed under prior contracts which may be used by the Contractor in connection with the water supply must be restored to perfect condition at the completion of this contract.

Permits.

20. The Contractor shall give all necessary notices, obtain all permits and pay all legal fees. He shall comply with all laws, ordinances or regulations relating to sanitation, streets, sidewalks, water mains, sewers, etc.

Approved by Other Departments.

These plans and specifications are approved as to number, kind and arrangement of lighting and power appliances by the Bureau of Lamps and Lighting of the Department of Water Supply, Gas and Electricity. No changes from approved plans shall be made without notice to that Bureau. The wiring, as shown by the plans, the details of construction and installation of electrical appliances must conform with the rules of the Bureau of Electrical Inspection, of the New York Board of Fire Underwriters, and the requirements for the economical operation of said appliances of the Bureau of Lamps and Lighting of the Department of Water Supply, Gas and Electricity, as set forth in these specifications.

Materials.

No electrical appliance, device or material of any kind shall be used that has not been examined and approved for use by the Bureau of Electrical Inspection under the rules and requirements of the National Board of Fire Underwriters as amended and adopted for The City of New York.

Certificates.

The Contractor shall obtain the approval, by certificate, of the Department of Water Supply, Gas and Electricity of all materials for electrical construction and of the installation of the same, and he shall furnish the Engineer of the Department of Bridges such certificate or certificates of satisfactory installation as a condition precedent to the final acceptance of the work.

Test.

Tests to determine the fulfillment of above requirements for electrical installation shall be made whenever necessary by the engineers of the Department of Water Supply, Gas and Electricity; tests to be run by said engineers in the presence of the Architect and Contractor. The instruments for the tests, or for calibrating the manufacturer's instruments, will be furnished by the Department of Water Supply, Gas and Electricity, or by the Contractor if requested to do so by the Department of Water Supply, Gas and Electricity; the necessary labor and material for making such tests shall be furnished by the Contractor. If tests are to be made at a point outside The City of New York, all the entailed expenses of the engineer or inspector of the Department of Water Supply, Gas and Electricity to, at and from this point shall be paid by the Contractor.

Protection.

21. Any work injured because of lack of protection must be made good by the Contractor. The Contractor shall protect the public and the adjacent premises from damage during the operations, and shall provide and keep in repair all necessary fences, temporary sidewalks, guards, railings, lanterns, etc., for this purpose.

The Contractor will be held responsible for and must make good any damage done to the work installed under prior contracts, and he shall furnish without further notice from the Architects any material and labor needed to protect same in any case.

Responsibility for Damage.

22. The Contractor will be held responsible for any damage to the building and premises, or to the public, occurring during the execution of this contract whether caused by him or his sub-contractors, the carelessness of any of his employees or any cause connected therewith. He shall sustain all loss from any unusual obstructions or difficulties which may be encountered in the construction of the building, or from the action of the elements, such as fire, water, frost and wind.

Tests.

23. All tests of materials, apparatus, etc., other than electrical apparatus and materials, which may be necessary in the opinion of the Architects to determine their quality, physical properties and efficiency, will be made by persons designated by the Commissioner. The cost of all tests and all costs incidental to same shall be paid by the Contractor. The requirements for testing of electrical installation are specified above.

Rubbish.

24. The Contractor shall maintain the building, premises and adjoining premises free from surplus materials and rubbish of all kinds. All rubbish shall be deposited in barrels and the barrels emptied and the premises cleared of all rubbish daily. Should the Contractor fail to perform this work in a satisfactory manner the Commissioner reserves the right to employ others to properly do so at the Contractor's expense.

On completion of the work, the Contractor shall clean the building and premises to the satisfaction of the Architects, leaving them broom clean. If necessary, in the opinion of the Architects, floors shall be scrubbed.

Ownership of Drawings.

25. All drawings, tracings and specifications shall be the property of The City, and must be delivered to it by the Contractor on the completion of the contract.

Prior Contracts.

26. Prior or earlier contracts have been awarded on the building as follows: The first for the foundations and the second for the completion of the sub-structure and the erection of the super-structure, exclusive of interior finish.

In addition a contract has been awarded by the Public Service Commission for work below the street level and contracts by the Commissioner of Bridges for laying pipes in the streets about the building and for the grading of the streets.

The second contract includes the completion of the building below the street level, the completion of same at the street level (except the finish of the elevator and stair halls with the doors and frames in the exterior openings), the erection of the exterior walls above the street level with frames, glazed sash and hardware for all window openings, the frames and doors with hardware for all openings leading

to roofs, all floor and roof aches, all finished roofing work, all fireproofing of columns, beams and girders inside the building, certain hollow-tile partition work around the elevator shaft, stair wells, etc., indicated by dotted lines on the drawings of the second contract, the rough steel strings and rough treads for the main stairs from the first to second stories, cast-iron strings, fasciae, under-treads, risers and newels for all stairs from the second storyp up indicated on the drawings of the second contract, the finish of the air intake rooms in the 4th story including doors and frames, the finish of the elevator machine rooms in the 25th and 26th stories (except doors and frames in the openings to the main corridors), the granolithic floors of the tank rooms on the 14th, 26th and 35th floors and of the elevator machine room on the 39th floor, plumbing and heating risers, electric feeders to the main switchboard, and all other work called for on drawings Nos. 11 to 40 inclusive, 43, 101 to 130 inclusive, 200 to 216 inclusive, 250 to 269 inclusive, 300 to 306 inclusive, 350 to 365 inclusive and the specifications accompanying same entitled "Specification for the completion of the sub-structure, the erection of the super-structure, and the installation of plant exclusive of interior finish, in the Municipal Building at the Manhattan Terminal of the Brooklyn Bridge in The City of New York."

The drawings and specifications of the second contract may be seen by the Contractor at the offices of the Department of Bridges or of the Architects.

The Contractor must acquaint himself fully with the requirements of the above noted drawings and specifications before estimating, as he must take the building as left under the second contract and complete same (except the finish of the tower) in accordance with the accompanying drawings and these specifications. Ignorance of the requirements of the drawings and specifications of the prior contract above described will not be accepted as an excuse for omissions. The Contractor will be required to complete the building, excepting the work specifically omitted hereinafter, and any work of any nature not provided under the prior contract described above but which may prove necessary to the completion, must be provided by the Contractor whether specifically mentioned herein or not.

The Contractor shall arrange his work so as not to interfere in any way with the work of prior contracts on the building nor with the work of any contract which may be let after the award of this contract. He shall co-operate with such Contractors, with a view to expediting the whole work and shall build in as his work progresses any work furnished under the other contracts noted above.

Scope of Work.

27. The Contractor shall take charge of the building and premises as left under the prior contracts, and he shall assume full responsibility for same, maintaining in good condition until the completion of this contract all work of any nature provided under the prior contracts.

This contract shall include the fireproofing of certain columns in the easterly track space in the basement, as well as other incidental work specified below the street level, and the completion of the building at and above the street level, except the tower, as per the accompanying drawings and these specifications.

28. As the assignment of spaces to Departments shown on the plans is in a measure tentative, The City reserves the right to rearrange the partitions forming offices, corridors, etc., and the work affected thereby, such as partition tile, steel bucks and framing, plastering, hollow metal work, hardware, marble wainscot and architraves, mosaic and other floors, concrete fill, plumbing and electric wiring work, etc., will be paid for as actually installed on the basis of the contract units of value of the materials or work as described hereinafter.

All work of every kind necessary to the completion of the building, except the tower, other than that covered by the contract units noted above, shall be provided by the Contractor under a definite contract for which a lump sum will be paid as per the terms of the contract. The definite contract shall include certain work below the street level, the completion of the building at the street level, the completion of the 4th story, the completion of all exterior, concourse and Chambers street walls including furring, plastering, trim, base, picture molding or other finish on same, the trim for all openings, both doors and windows, provided with frames under the second contract (except in the tower), all vaults, all stairs connecting Departments, the risers of the vacuum cleaning plant, the completion of all spaces enclosed on the various plans by dotted lines and other work mentioned herein or specifically shown on drawings to be in the definite contract.

The plastering and finish on the reverse or unit side of the partitions binding the spaces on the various plans enclosed by the dotted lines shall be provided under the contract units, but the frames, doors, transoms and sash and partition frames and sash in the partitions shall be included in the definite contract.

In the tower the finish shall end with and include the ceiling of the 25th story. but rising pipes or mains of any kind shall be carried above the floor of the 26th story. Above the 25th floor the tower will be unfinished, except for certain electric and heating work shown and specified, and except the finish of the stairs wells and halls and elevator halls and shaft which must be done as a part of the definite contract.

Note.

29. Wherever in the specications or on the drawings work is noted to be in the definite contract it shall be clearly understood that work so called for or noted shall be furnished and set under the lump sum bid.

Omitted Work.

30. The following work will be omitted from this contract:

The stairs to Subway in the north and south concourses in the 1st story with well fasciae and railing. All elevators with their machines, but this ommission does not cover the electric dumbwaiters. All work indicated on the drawings to be in prior or earlier contracts. The finish of the tower above the 25th story, except as before otherwise specified. All lighting fixtures, except those specified hereinafter. All equipment, such as desks, counters, railings, furniture, etc. All decorative painting.

Temporary Work.

31. The Contractor shall remove all work of a temporary or protective nature installed under the earlier contracts where necessary to give place to the work of this contract. At completion he shall remove all temporary or protective work from the premises.

He shall remove the blocking under raidiators installed under the earlier contracts, disconnect the radiators, and after the work of this contract is installed he shall reset and reconnect them, leaving them in perfect working order.

Cutting of Existing Work.

32. The Contractor shall do all cutting, tearing out, drilling, plugging, chasing, punching or tapping, or shall treat otherwise as may be required all work of all kinds installed under the earlier contracts necessary to receive or permit the installation of all work covered by this contract.

The cost of the above work when done to accommodate the work of the contract units shall be covered in the prices of the contract units as stated in the Bid Sheet. In all other cases it shall be included in the definite contract.

The above shall include, among other things, the following: The cutting out or recessing of the granite sill and platform stones in the entrance openings and easterly vestibules on the 1st floor to receive the marble floor tile shown and specified, the Contractor shall allow ¾ inch clear bedding space.

The cutting out of fireproof floors for new pipe and other shafts (including that adjoining column No. 26 from the 4th floor up through the building), for wells for the new stairs connecting branches of departments, for shafts and pits for dumbwaiters and for mail chutes, for all new ducts, piping of all kinds, and for conduit, and to accommodate all new framing shown on drawings.

The cutting out of roofs and skylights for new ventilators and for the new skylight shown on the 26th floor.

The cutting necessary for anchors, bolts, etc., for securing the work of this contract to that of the earlier contracts.

Before setting the bronze grilles in the windows of the 4th floor the granite jambs and soffits must be dressed smooth to match the adjoining granite work.

The necessary cutting to bond new mason work to that of earlier contracts.

After all work of this contract is installed, the Contractor shall repair all work installed under the earlier contracts which may be damaged in installing new work, restoring it to perfect condition.

Any vertical or horizontal chases or slots for pipe or conduit cut in the work of the earlier contracts must be filled solidly with Portland cement mortar after the pipe or conduit is installed.

The cost of such repairs shall be included in the contract units or definite contract in accordance with the requirement specified above.

Temporary Office.

33. The Contractor shall furnish and erect where directed a weatherproof temporary office of sufficient size to include two rooms 10 feet by 15 feet and one room 30 feet by 15 feet, for the use of the Bridge Department and the Architects, in addition to the rooms required by the Contractor. He shall properly light and heat the building when necessary, and shall maintain it in good condition, until the completion of the work. He shall install in same in a separate room, which must be lighted and ventilated, temporary toilet accommodations, as specified under "Plumbing Work."

Power for Tests.

34. The Contractor shall furnish at his own cost all electric current or steam power, and oil, water, fuel and other material and labor required for testing lighting and all other devices or apparatus, the installation of which is covered by this contract. Also, he shall provide any temporary lighting necessary for his own convenience in the operations.

Glass Breakage.

35. The Contractor shall be responsible for any breakage of glass furnished under this contract or any furnished under the earlier contracts. All broken glass (no matter by whom or what caused) must be replaced by the Contractor before the completion of the contract.

Mason Work.

Material—Broken Stone.

36. Broken stone shall be of sound trap rock or limestone, machine broken, well screened and of sizes as specified hereinafter.

Cinders.

37. All cinder shall be from anthracite coal burning boilers and shall be screened and washed free of ash.

Sand.

38. All sand shall be sharp, silicious sand, equal to "Cow Bay" sand, and free from salt, loam or other impurities.

All white sand shall be the best quality of white silica sand.

All sand shall be screened before using.

Lime.

39. All lime must be of the best quality, freshly burned, free of core and of Boyd's, Thomaston, Cheshire or Rockland brands, or an equal thereto.

Portland Cement.

40. All Portland cement shall be of best quality, of brand to be approved and it must meet the requirements of the American Society for Testing Materials covering Portland cement.

Non-Staining Cement.

All non-staining cement shall be a white Portland cement of the Atlas, Medusa, Blanc or an equally good make, and it shall conform to the requirements specified before for Portland cement.

Storage.

41. All lime and cements must be kept under cover and be stored on planks or skids raised from the ground.

Mortar.

42. All materials for mortar must be carefully measured in barrels and mixed in proper plank mortar boxes. No mortar shall be mixed on the bare ground.

The cements and sand must be carefully measured and first mixed together dry, water being added gradually.

Lime must be slaked in large wooden boxes and allowed to stand not less than two weeks before using.

Portland Cement Mortar.

43. Portland cement mortar shall be composed of one part Portland cement to three parts sand.

Non-Staining Cement Mortar.

44. Non-staining cement mortar for setting marble shall be composed of one part non-staining cement, one-twentieth of a part of lime paste and three parts sand.

Pointing mortar shall be composed of one part non-staining cement to one part white silica sand.

The different mortars shall be used as specified hereinafter.

Concrete.

45. All stone concrete shall be composed of one part Portland cement, three parts sand and five parts of broken stone sized to pass through a ¾-inch ring.

Cinder Concrete.

46. All cinder concrete shall be composed of one part Portland cement, two parts sand and five parts of cinders.

Grout shall be mixed in the proportion of one part cement to two parts of sand.

Mixing and Setting Concrete.

47. All concrete must be thoroughly mixed, preferably in a machine mixer. If hand mixed, it must be mixed in a tight box as follows:

First mix the cement and sand, then add the stone and again turn the mass over, then work thoroughly and rapidly with shovels while water is added. Work the mass until it is thoroughly incorporated.

All concrete shall be thoroughly tamped until the water flushes to the surface.

All wood forms necessary in setting concrete work and the bracing of same, shall be furnished by the Contractor.

Casing Basement Columns.

48. All isolated columns in the east track space in the basement shown on the plan (approximately 40 in number) shall be cased by the Contractor. The casing shall be parallel in every case with the east and west walls enclosing the space. The bases shall be protected with stone concrete filled in solidly up to the steel and the finished surfaces shall follow the slope of the column base. This concrete shall have a minimum thickness of 4 inches beyond the metal at all points and the finished work shall have a uniform pyramidal form. The top shall be flat and be wide enough to allow for a plaster finish on the casing of the column. After the forms are removed all voids shall be pointed up, the surfaces rubbed thoroughly smooth and washed with neat cement. Above the bases the columns to the ceilings shall be cased with common brick to match that specified hereinafter, laying it in Portland cement mortar with struck joints. The brick casing shall be 4 inches thick beyond the steel and the voids back of same filled solidly with bats and Portland cement mortar. The casings shall be wedged against the ceiling above. It shall be tied together at the angles in every fifth course by galvanized iron wall ties furnished by the Contractor.

Concrete Fillings.

49. The Contractor shall fill in with concrete of the necessary thickness on all fireproof floors throughout the building to receive the finished work.

Under marble, mosaic or tile floors the filling shall be stone concrete; elsewhere it shall be cinder concrete. Under tile and mosaic floors the fill shall be carried up to within one inch of the finished levels. Under marble floors it shall be carried up to the required height allowing ¾-inch for the bedding of the marble work. Under rock asphalt floors the concrete fill shall be finished with a ¾-inch thick coat of Portland cement mortar floated smooth and finished one inch below the finished levels.

Where cork tiling is required, the cinder concrete fill shall be floated level at a height of 1½ inches below the finished floor line to receive the foundation specified under Cork Tile.

Extra fill must be provided wherever necessary, notably: Under all urinal platforms, the toilets in the 2nd story, and the steps in the north telephone room in the 1st story, but the Contractor shall refer to the various drawings for the required fill.

Wherever the total concrete fill on floors exceeds 8 inches the extra filling shall be done with hollow tile, as specified hereinafter, but the minimum thickness of concrete on top of such hollow tile filling shall be 4 inches.

Where cement floors are specified hereinafter the cement floor must be laid before the filling concrete has set.

After the new skylight and ventilator curbs are installed the Contractor shall fill on the roofs around same with cinder concrete of the necessary thickness, finishing with a ¾-inch coat of Portland cement mortar, floated smooth and properly connecting to the existing roof. He shall also fill in on the roof over the East entrances.

Where beams project above the floor arch in door openings he shall level up to the top of same with stone concrete to receive the bottom member of the bucks.

Where finished floors are included in the Definite Contract, the concrete filling shall be included also. Elsewhere it shall be provided under the contract units.

Reinforced Concrete Work.

50. The roofs and floors of all vaults shall be of reinforced concrete provided under the Definite Contract. They shall be of stone concrete 5 inches thick reinforced by ¾-inch round, square or twisted bars furnished by the Contractor and spaced 6-inch centers. The reinforcement must be bound with steel at the required distance

and blocked up at least one inch above the bottom of the concrete. The floors shall be finished with a coat of Portland cement mortar to receive the asphalt floors specified hereinafter.

Across the building in the 4th floor between columns 54 and 60 and 71 and 77, the Contractor shall fill in between the girders with stone concrete reinforced with No. 10 gauge large mesh galvanized expanded metal. The Contractor shall provide steel angles, bolting them to the channel beams at the two levels to receive the reinforcement, and shall wrap expanded metal around the flanges of the two beams to anchor the protecting concrete. The work shall be filled in solidly and reinforced a second time, the upper reinforcement shall be carried over on the floor arches of the two levels. The Contractor shall fill in on top of the reinforcement as indicated on the drawings forming all steps indicated and the platform where the steps do not occur. The work shall be finished as specified under Cement Floors.

All dumbwaiter pits shall be built of reinforced stone concrete of thickness indicated on the drawings and reinforced as specified for the steps in the 4th floor. They shall be finished as specified under Cement Floors.

The above work shall be included in the Definite Contract.

Grouting.

The Contractor shall grout solidly behind the steel lining of the vaults as a part of the Definite Contract.

Repairs to Fireproof Floors.

51. The Contractor shall repair all fireproof floors and roofs after the work of this contract is installed. Where practicable, such repairs shall be done with hollow tile arch blocks as specified hereinafter. Elsewhere, the Contractor shall provide a form on the ceiling and shall fill the spaces with cinder concrete, reinforcing it with No. 10 gauge large mesh galvanized expanded metal, the reinforcement to bear on the steel and the portion of the arches remaining intact.

All steel framing exposed in pipe, dumbwaiter or other shafts shall be protected on all sides by stone concrete at least 2 inches thick; the steel shall be wrapped with the expanded metal specified above to receive the concrete.

Cement Floors, General.

52. All cement floors shall be 1 inch thick and shall be composed of one part Portland cement, one part clean grit, and one part pure quartz sand mixed to a stiff mortar, floated on and troweled to a smooth, even surface. A dryer of neat cement shall be sprinkled over the surfaces and thoroughly troweled in. The surfaces shall be graded where required. The cement floors must be laid in every case before the base concrete has set in order to thoroughly bond with same.

The cement floors must be protected after laying with planking and building paper and left in perfect condition on completion of the work. Cement floors shall be marked off in squares of from 2 to 4 feet as will be directed.

Work to Be Done.

53. The following cement floors shall be laid to conform to the foregoing requirements and as a part of the definite contract:

All spaces under the main stairs in the 1st story, including the closets.

The steps in the north telephone room shall be worked in the cement on a stone concrete fill to form shown on the detail, building in one width of safety tread anchored in place, the tread to be of approved make.

All closets and pipe spaces above the 1st story within the spaces enclosed on the various plans by the dotted lines.

Rooms 220-S, 224-N, 330-N and 337-S.

The entire 4th floor excepting the stair halls, toilet rooms and filing spaces. The work shall include the finish on the reinforced concrete steps specified hereinbefore between columns 54 and 60, and 71 and 77, and the finish on the risers of the platform between the steps.

The two (2) fan rooms in the 25th floor.

The tank rooms at the north and south ends of the 26th floor.

The fan rooms and elevator despatcher's room in the roof house in the 26th floor.

The pits of all dumbwaiters.

The steps in the 4th floor shall be provided with one width of safety tread with nosing properly anchored in place. All safety treads shall be provided under Ornamental and Miscellaneous Metal Work.

All spaces occurring within the dotted lines on the various plans which are not herein elsewhere provided with floors, must be finished with cement floors.

All other cement floors required shall be provided under the contract units.

Enamel Brick.

54. All walls of the four (4) new fresh air chambers in the 4th floor shall be lined from floor to ceiling as a part of the Definite Contract, with the best quality of white enamel brick, American size. They shall be laid in non-staining cement mortar and be anchored to the backing by galvanized iron ties 12 inches apart in every fifth course, and by drive anchors to the existing walls. All corners shall be bull-nosed and arches provided of specially made radial brick over the openings with soffits and jambs carried in to the frames. In addition, the sills of the windows shall be of enamel brick in to the frames. All joints of enamel brick shall be raked out and pointed up at the time of laying, using a pointing mortar composed of one part non-staining Portland cement to one part of white silica sand.

Common Brick.

55. All brickwork necessary to the completion of this contract, shown or implied on the drawings and details, shall be provided as part of the definite contract, and shall be the best quality of hard-burned brick of good, even color, square edged, well shaped and free from checked, swollen or refuse brick or bats.

All bricks must be wet before laying and be carefully bedded and bonded with level, close and completely flushed joints without interstices. Every sixth course shall be a heading course, and all joints in brickwork which will be exposed to view in the completed building must be neatly struck. All brickwork shall be laid up in Portland cement mortar.

The above shall include the walls of all vaults, except that the outer 4 inches shall be of hollow tile carried to the ceiling as specified hereinafter. It shall include also all brick necessary to back up marble work, including the necessary walls and supports for the main stairs in the 1st and 2d stories, any piers required to support piping, and the backing of all enameled brick.

Hollow Tile Work.

56. All hollow tile shall be the best quality of porous terra-cotta, hard and thoroughly burned, true, free from all defects, well stiffened with longitudinal and cross ribs and with grooves on all sides to form keys for mortar and plastering. It shall be laid up in Portland cement mortar.

Floors.

57. The floors of the tank rooms at the north and south ends of the 26th floor shall be provided under the definite contract with arches of hollow tile straight, flat blocks, side construction, and in general of 15-inch depth. Joints must not exceed 3/8 inch, and no wedging of joints or cutting of ill-fitting blocks will be allowed.

The skewbacks must be made to fit accurately the beam sections and they must have beveled flanges with soffit tile to protect the beams. The underside of all arches must present a perfectly level surface when ready for plaster.

Girders projecting below the ceilings must be protected, using flange blocks and soffit tile with partition tile for the sides of the girders.

After all other work of this contract is installed the Contractor shall repair the floor and roof arches in the best manner, using tile arch blocks of size to conform to the existing arches. Where the use of tile is not practical, the repairs shall be made with reinforced concrete as specified before.

Where the concrete filling on fire proof floors is over 8 inches in depth, the Contractor shall provide hollow tile fillers of suitable form, laying them to entirely cover the spaces.

Partitions.

58. All partitions shall be built of hollow tile of the required thickness, be started on the floor arch and be wedged to the floor arch above. Partitions shall be well bonded together and anchored at intersections by toothings.

Where partitions come in contact with hollow tile work done under the earlier contracts it must be bonded to same by toothings; the Contractor shall do the necessary cutting.

The following partition work shall be done under the Definite Contract:

All work required in the 1st and 4th story.

All work above the 1st story throughout in the spaces inclosed on the various plans by dotted lines.

All dumbwaiter shafts.

Curbing for the new skylight.

The outer 4 inches of all vault walls, which must be carried to the ceiling.

The necessary blocking from the framing up to the underside of the saddles of all elevator openings.

All work required as a backing for marble work provided under the Definite Contract. All other partition work shall be provided under the contract units.

Column Casing.

59. The Contractor shall case in the columns at the front of the elevators in all stories with 4 inches of hollow tile, carried from arch to arch, anchored together and to the columns and bonded to the partitions in connection with same. The void spaces back of the casing shall be filled solidly with bats and mortar. He shall also case in columns Nos. 77, 345 and 346 in the mezzanine story below the street level to match the above.

Wherever in the 1st-story hall the finished marble work will not permit of the above specified form of column casing, the Contractor shall wrap the columns with 16-gauge, 1½-inch mesh, expanded metal properly wired on, set wood forms and fill in with stone concrete, backing same solidly up to the steel and carrying it as far beyond the metal as the marble will permit.

The Contractor shall build the free-standing column indicated in the 2d-story south stair-hall, and remove the casings on the columns in the north and south stair-halls at the above level, providing new casings of form shown. All column casing shall be included in the Definite Contract.

Furring.

60. All exterior, concourse and Chambers street walls at the street level, all Chambers street walls above the street level and all extrior walls above the street level up to and including the 25th floor, and the two roof houses in the 26th floor, shall be furred under the Definite Contract with hollow tile. The hollow tile shall be of forms to give the finished lines indicated on the drawings. In general, the furring shall be 4 inches thick, but the finished lines are defined by the position of the piping on the walls, and the furring in front of such piping shall not be less than 3 inches thick in any case. In cases of walls having no piping, or where the pipes ar set so far in the chases as to be flush with the face of the wall, such furring may be 3 inches thick, except under windows, where it shall be 2 inches thick. All furring applied directly to the walls shall be anchored by drive anchors. Free standing furring shall be properly bonded. Pipes on exterior walls shall always be covered in to conform to the above.

The above shall include the boiler flue walls, and the exterior walls of the toilets and elevator shafts in the 4th story.

Where partitions occur in the mullions of windows extra furring shall be provided and carried out to the face of that on the walls as indicated on the typical window details.

Furring shall be carried in to the frames on the jambs of openings and throughout the recesses under windows. The furring over windows is specified hereinafter.

The Contractor shall also provide as a part of the Definite Contract the necessary furring throughout on the walls of the stairwells to cover projecting steel and to give the finished outlines called for.

In addition, the finished lines of casings on columns done under the second contract (see paragraph 26) where affected by shafts or partitions, shall be padded out or cut out and replaced and brought to the new lines indicated on the plans as a part of the Definite Contract.

All furring other than the above shall be provided under the contract units.

Book Tile.

61. All roof surfaces above the easterly entrance vestibules and the roofs at the side of same shall be covered with 2-inch by 12-inch by 24-inch hollow tile book form.

Centers.

62. The Contractor must furnish and set all plank centers with hanging irons or other supports necessary for the hollow tile work.

Cutting.

63. The Contractor shall do all cutting of mason work required to accommodate all trades or work provided under this contract and shall make good after same. Chases or slots for pipes or conduit must be filled solidly with Portland cement mortar after the pipes or conduit are set.

Building in Work.

64. The Contractor shall build in as the mason work progresses all fixtures required or other work specified hereinafter.

Anchors.

All anchors, ties, bonds and other metal work, etc., required in masonry work shall be provided and set by the Contractor.

Waterproofing.

Materials.

65. The felt used in waterproofing shall be the best qualtiy of saturated roofing felt and weigh not less than 14 pounds per 100 square feet of single ply.

All pitch shall be the best quality of straight-run American coal tar pitch and shall be applied hot.

Surfaces to be waterproofed must first be given a coat of hot pitch.

Each layer of felt must be coated after laying with pitch and all joints in the felt must be made by a lap of one-fifth the width of the sheets and one-third the width of the joints must be cemented with pitch.

All waterproofing shall be done in three thicknesses of felt properly cemented together as specified above.

The Contractor shall do all leveling up on the arches to receive waterproofing, and where beams or girders project above the arch he shall build suitable haunches on either side of same, using Portland cement mortar.

The waterproofing must be carried up 12 inches on all walls, and sleeves of 18-ounce copper with flanged bottoms shall be provided for all pipes passing through the floors. The sleeves shall be carried up to the level of the finished floor.

The Contractor shall also provide hoods of 4-pound sheet lead beaten around the pipes to lap 2 inches down on the outside of the copper sleeves specified above.

Work to be Done.

66. The following waterproofing work shall be done as a part of the definite contract:

The floors of the four (4) new air chambers on the 4th floor.

The floors of all toilets, the locker rooms and the adjoining pipe spaces, and also the floors of sink closets on the 4th floor.

The floors of all toilets with the passages or vestibules leading to same and the adjoining pipe spaces, and the floors of sink closets when occurring in the spaces inclosed on the plans by dotted lines.

Sleeves shall be provided in the above work for pipes breaking through the floors, and around pipe shafts the waterproofing shall be carried up to the top of the fascia of the shaft.

The waterproofing of toilets, sink closets or lavatories other than those specified above, with the pipe sleeves and lead hoods, shall be provided under the contract units, and conform to the general requirements specified above.

Waterproof Paint.

67. As a part of the Definite Contract, the interior of all exterior walls, including Chambers street walls, having free standing furring shall be given two (2) coats of Minwax, Dehydratine, Esco, Canrobert's Dampproof, Universal Compound or an equally good waterproof paint having a bituminous base; the painting shall be carried out 8 inches on the ceiling in each story. The paint shall be of such consistency as to cover not over 100 square feet to the gallon.

Repairs.

68. The Contractor shall do all repairing of waterproofing after all other work specified herein in connection therewith has been completed, leaving same in perfect condition.

Guarantee.

69. The Contractor shall guarantee the waterproofing work to be absolutely moisture proof for two (2) years from the acceptance of the building. Should it in any instance fail, he must renew same without cost to The City, and also make good any work damaged by reason of such failure or by the renewal of the waterproofing.

Rock Asphalt Floors.

General Requirements.

70. On the cement surfaces provided under Masonry, the Contractor shall lay a wearing surface 1 inch thick of Rock Asphalt Mastic, laid in two coats, the first soft to form a cushion and the second of sufficient hardness to form a wearing surface that will not indent under ordinary use. The surface shall be left with a true sand rubbed surface without depressions or defects of any kind.

The asphalt used shall be Rock Asphalt Mastic equal to the Val-de-Travers mines, said name being used as a standard. The material furnished shall be equal thereto.

No materials other than refined Venezuela or Trinidad asphalt shall be mixed with the mastic except clean silicious sand or fine crushed granite, which must be added in such proportions as may be necessary to obtain the requisite hardness. The quantity used, however, must not exceed 0 pounds to every 100 pounds of mastic.

The addition of coal tar products (petroleum, residuum or volatile oils) either during the process of manufacture of the asphalt mastic used for this work or while same is being prepared for use, is absolutely prohibited. Analyses of the material will be made when required by the Commissioner, the cost of which must be paid by the Contractor.

Where Used.

71. The following spaces shall be floored in Rock Asphalt as a part of the definite contract and to conform to the foregoing requirements:

Rooms 219-S, 223-N, 336-S, and the passagess leading to same, all filing spaces on the fourth floors and the floors of all vaults.

All other Rock Asphalt floors shall be provided under the contract units.

STRUCTURAL STEEL WORK.

General.

72. This part of the specifications shall cover all changes to the structural steel work installed under the second contract (see paragraph 26) which are shown on the drawings entitled "Details of Steel Framing." On the drawings the dotted lines indicate the existing framing, the new framing being shown by solid lines.

The sizes and sections called for on the drawings are those contained in the Carnegie Hand Book, edition of 1903, but others of equal strength for the loads to be carried in every case may, with the approval of the Architects, be substituted. In general, the drawings are made to scale but scale dimensions shall not govern. The Contractor must check all dimensions before the work is detailed to insure himself that there are no errors and no inconsistencies on the drawings. The Contractor will be held responsible for the perfect working out of all details and no extra will be allowed because of his failure to inform himself perfectly in regard to the building.

All material used in the framnig shall be of steel of quality as specified hereinafter.

Beams.

73. In general, not more than ⅛ of an inch will be allowed for the clearance at each end of beams connecting to beams and ½ of an inch at the ends of beams connecting to columns. In all cases where possible the connecting angles used must be similar to those recognized as standard by the Carnegie Hand Book, edition of 1903, and have the same number of rivets. Beams connecting to columns must have eight rivets at each end, four in the top flange and four in the bottom flange, wherever the column will permit of that number.

Unless otherwise particularly noted, all beams or other new members are shown to their approximate length by a single line on the drawings. Where required shelf angles of suitable size must be provided and riveted to the beams and girders to receive the floor arches.

Separators.

74. Cast iron or riveted steel separators must be provided for all double beams. Cast iron separators must be not less than ½ inch in thickness and unless measurements given make it impossible, they must be standard.

Tie Rods.

75. Tie rods must be provided where indicated on the drawings or where necessary for good construction. They shall be ¾ inch in diameter and be made with two nuts.

Bolts and Rivets.

76. Rivets must be calculated for shear at not more than 8,000 pounds per square inch of section for field rivets. All rivets must be accurately spaced and no drifting will be allowed. Rivet heads must be concentric with the neck, and rivets when driven must completely fill the hole. Wherever possible the rivets must be machine driven. Rivets must be used in all connections where riveting is possible. Both bolts and rivets must be ¾ inch in diameter throughout the work, except where it may be necessary to use other sizes.

Character and Finish of Steel.

77. All of the steel used in this building shall conform to the Manufacturers' Standard Specification for Steel and may be made either by the Bessemer or open hearth process. When tested as hereinafter specified the material must comply with the following requirements:

	Med. Steel.	Rivet Steel.
Ultimate strength in pounds per square inch.....	60,000 to 70,000	48,000 to 58,000
Elastic limit, not less than half the ultimate strength.		
Percentage of elongation.....	1,400,000 / Ultimate Strength.	

Rivet steel shall be used for rivets and medium steel for all other material. All steel must present a smooth surface, free from all faults or defects of any kind or any indication of unsoundness. Each piece must be straight, free from wind and rolled true to size. A variation of more than 2½ per cent. in cross-section or weight of rolled material from that specified will be cause for rejection. Rivet steel must stand a bending test 180 degrees flat without fracture on the outside, and must not contain more than .04 of 1 per cent. of phosphorus. Medium steel must stand a bending test of 180 degrees on a radius equal to thickness of piece tested without fracture on the outside, and must not contain more than .08 of 1 per cent. phosphorus when made by the acid process, nor more than .04 of 1 per cent. when made by the basic process.

Erection.

78. The use of iron sledges in driving or hammering beams or other structural material will not be allowed. Wooden mauls must be used. Care must be used to prevent the material from falling or from in any way being subjected to heavy shocks. The material must not be cut for any purpose without first obtaining the approval of the Architects. If any serious difficulty occurs during the erection it must be reported to the Architects before any measure is taken to meet it. Every failure of the material to come together properly must be reported to the Architects.

Shop Details.

79. The Contractor shall make the shop details for all structural steel work and shall submit same to the Architects for approval before starting the work.. The Architects will correct any errors discovered in the detail drawings, but failure to discover errors on the Architects' part shall not relieve the Contractor from responsibility for the proper fitting and construction of the work. Copies of the shop drawings shall be left with the Commissioner and Architects as specified under "General Conditions."

Cutting, Tapping, etc.

80. The Contractor shall do all cutting, drilling, punching and tapping of structural steel work necessary to accommodate all work, and he shall furnish all necessary bolts required for securing all work. The Contractor shall do all cutting, tapping, drilling or punching of the work of the second contract (see paragraph 26) necessary to install the work of this contract.

Painting.

81. All steel work must receive one coat of paint before it is taken from the shop or exposed to the weather. Covered surfaces, surfaces in contact, surfaces enclosed and all parts of riveted members must receive one coat of paint after the pieces are punched and before they are assembled. All bolts must be dipped in paint before they are put in place. This shop coat shall be composed of pure red lead (dry) and seasoned cold pressed linseed oil mixed in a revolving churn or by other satisfactory mechanical means and in the proportion of 22 pounds of lead to one gallon of oil.

The dry lead and oil must be brought on the work in their original packages and mixed immediately before using. Not more than 110 lbs. of lead shall be mixed at any one time and this shall be entirely used before another batch is mixed. This shop coat must not be applied over loose scale or initial corrosion: if the scale has not fallen off or if rust has formed it must be removed with a stiff wire brush. Before the field coat is applied all rivet and bolt heads and nuts shall be painted and abraded surfaces touched up with red lead paint.

After erection all steel work shall be painted a second coat of paint. This field coat shall conform in all respects to the shop coat specified above, except that sufficient pure lampblack or other inert pigment to be approved shall be added to give enough variation in color to make the field coat readily distinguishable from the shop coat. All paint shall be subject to analysis from time to time as the Commissioner may think necessary.

All brushes used in painting must have stiff bristles and short handles. The use of long-handled brushes will not be permitted, and no spraying will be permitted.

Painting must always be done on dry surfaces and, preferably, on warm ones. Mud, grease and dirt of every kind must be removed before painting.

ORNAMENTAL AND MISCELLANEOUS METAL WORK.

General Requirements.

82. All bronze shall be statuary bronze of the composition of 85 parts copper, 6 parts tin, 5 parts zinc and 4 parts lead.

All steel shall conform to the requirements for steel specified under Structural Steel Work.

All wrought iron work shall be perfectly welded in rolling, be fibrous, uniform and free from all defects.

All cast iron must be tough gray iron free from cold shuts, blow holes or other serious defects.

All castings shall be of sufficient thickness of metal and uniform in thickness throughout. They shall be made with care, be straight and true to pattern, have smooth faces, clean, sharp arrises and sharp, well-defined moldings and ornament. All castings shall be entirely free from any and all defects which impair, in the opinion of the Architects, their strength, durability and appearance.

All castings shall have joints filed to a close fit, all exposed joints lapped flush, with all bolt and screw holes drilled and not cored, and countersunk flush. All miters in cast work shall be cut and filed smooth, the fit shall be perfect. The cast work throughout shall be fitted together without shoulders or breaks. All cast work shall follow closely the full size details. All cast work shall be cast with all lugs required for the connection of other work to same, for connection of the parts and for anchorage to masonry. Cast work in connection with masonry or stonework must be anchored to same by expansion bolts of material to match the cast work. All parts in cast work shall be put together in red lead paste, but it shall not be exposed to view.

All cast window frames shall be provided with cast sills.

All cast metal work shall be reinforced with rolled steel for stiffness. This reinforcement shall be furnished and set by the Contractor, of sizes and shapes approved by the Architects, and the cast work shall be bolted to same in every case.

Cast frames shall be recessed where required to receive butts, pivots or other hardware. The entrance and vestibule doors in the first story shall be hung directly from the bronze grames which must be recessed for the butts as specified above. Exterior cast frame work shall be provided with rolled molded hanging stiles and the junctions with the jambs and soffits shall be caulked with oakum and filled with elastic cement, making them weatherproof.

All cast bronze shall be of thicknesses as detailed, but it shall have a minimum thickness of ¼ inch. Sheet bronze shall be in no case less than ⅛ inch thick.

All finishing or cover joint moldings required for cast metal work shall be provided by the Contractor, who shall also provide molded stop beads for sash where required. All moldings shall be secured by countersunk head screws.

Cast stair strings provided under this contract shall have a minimum thickness of ½ inch, and the fasciæ of wells and platforms shall match the strings and be carried above the finished floors as required.

All stairs provided under this contract shall be provided with under treads and platforms of No. 10 B. & S. gauge steel screwed to the risers and treads and completely covering the tread or platform.

All connections and fittings for pipe rails shall be the screw type, set in red lead and the threading shall not show.

All bronze shall be emeried smooth and finished with a coat of linseed oil.

All cast iron work shall be picked and filed smooth.

Models.

83. The models for all ornamental metal work are specified hereinbefore.

Glazing.

84. All glass in connection with the Ornamental and Miscellaneous Metal Work, except wire glass, shall be the best quality of selected polished American plate glass ¼ inch thick, free from waves, blisters, bubbles and defects of any kind.

All wire glass shall be of standard thickness and of the best quality in which the wire is in a plane equi-distant from both faces of the glass, and the glass shall be set with the twist of the mesh in a vertical position.

All glass in metal work shall be bedded in strip rubber and elastic cement and be secured in place by rolled moldings set with countersunk head screws.

Sashes and frames shall be planed to make a true and perfect fit; the parts shall be accurately fitted, made weathertight and firmly secured in place. Fixed sashes shall be embedded in elastic cement and secured in place by rolled moldings as specified above.

Hardware.

85. All rough and finishing hardware required to complete the Ornamental and Miscellaneous Metal Work shall be furnished and set by the Contractor. All finishing hardware shall be of heavy cast bronze to match in character and finish the finishing hardware of the building specified hereinafter.

Working Drawings.

86. The Contractor shall furnish for the Architects' approval working drawings of all Ornamental and Miscellaneous Metal Work. After approval copies of all working drawings must be left with the Architects and with the Commissioner.

Work to Be Done.

87. All Ornamental and Miscellaneous Metal Work specified herein or shown on the drawings shall be furnished and set by the Contractor to conform to the foregoing generally requirements. It shall be a part of the definite contract except where specifically otherwise noted.

Cast Bronze Frame Work.

Easterly Entrances.

88. The easterly openings to the north and south elevator halls shall be provided with cast bronze frames, mullions, transoms and sash, and vestibules as per the drawings. All sash shall be glazed with clear plate glass.

On the exterior the work shall consist of molded frames, paneled and ornamented pilasters with molded caps and bases forming the vestibule, molded panels under the side-lights with base and base for the vestibule, glazed sash forming the side-lights, with molded sills, fixed glazed sash forming the sides of the vestibule, a molded and ornamented cornice over the side-lights and vestibule with ornamental members in the center and a mullion separating the two doors. Above the cornice there shall be provided molded frames, paneled and ornamented mullions, molded and ornamented entablature with frames and mullions above same, and all sash shown on the detail glazed as specified before. On the inside, the work shall be substantially as specified for the exterior with the difference shown on the drawings; notably, the junction with wall shall be made by a paneled and ornamented pilaster and the cornice and entablature members differ somewhat from those on the exterior. Under the side-lights the registers specified hereinafter shall be set. In the vestibule the duct spaces on the sides must be covered by bronze panels with glazed sash above same and the ceiling of the vestibule shall be paneled in bronze. The ceilings over the duct spaces at the sides and the granite jambs of same shall be paneled in bronze to conform to the vestibule.

The Contractor shall provide all steel reinforcements required in the work, and also provide tee and angle iron framing to receive the book tile, fill and wood sheathing of the roof spaces over the vestibule and duct spaces. The entablature member shall be coped perfectly over the granite impost course on the exterior. In addition, the sash on the inside over the register shall be provided with heavy bronze butts and a suitable spring lock. The three sash shown to pivot shall be hung on heavy bronze pivots and be provided with an operating device concealed from view in which the shafts shall be of the finest quality tool steel; all necessary geared nut and worm bushings shall be provided of Tobin bronze and all lever operating arms of hand-forged steel. The device shall be tested to operate a load of four (4) times the amount that will be imposed upon it in the operation of the sash. The operating devices shall be carried through the face of the marble work with bronze sockets with collars provided for same, and one (1) removable key with wheel must be provided for same. As little of the operating device as practicable must be exposed to view. The Contractor shall submit a working drawing of the operating device for the correction and approval of the Architects before making same.

The entrance and vestibule doors shall be provided in Kalameined Work, but the frames shall be recessed to receive the butts.

Chambers Street Entrances.

89. The openings from Chambers street to the north and south entrance halls shall be provided with cast bronze frames consisting of paneled and ornamental pilasters with molded caps and bases, plate fillers and a simple molded top member, the

frames on the inside shall show pilasters to match. The Contractor shall also provide the mullion separating doors.

The inner vestibule partition shall be of cast bronze to show alike on both sides, and shall consist of pilaster frames and mullions, a mullion separating the doors, molded and paneled bases, and molded and ornamented cornice with cheneau. The pilasters shall be paneled and ornamented.

The Contractor shall provide the sash in the side-lights, glazing them with clear plate glass. The cornice shall be carried around in the vestibule with crossing beams paneled on soffits as indicated, pilasters provided in four (4) corners of the vestibule and the whole roofed over with frames glazed with clear plate glass. The cornice shall be carried around in the bays formed by the beams in the ceiling. The doors are specified to be provided under the Kalameined Work, but the bronze frames shall be recessed to receive the butts. All open beams or other work in the roof shall be closed on the top by plates.

Concourse Entrances.

90. For the openings from the Concourses to the north and south elevator halls the Contractor shall provide cast bronze frames with mullions, consisting of paneled pilasters with molded caps and bases, sash in the side-lights glazed with plate glass, molded and paneled base and molded and paneled transom at the door height with the mullion separating the doors. Above this height the Contractor shall provide a frame with paneled and ornamented mullions and with molded and ornamented transom member, and all sash shown, glazing them with clear plate glass.

The three (3) sash similar in position to those at the easterly entrance shown to pivot, shall be pivoted and provided with control as specified for the easterly entrances. On the inside the Contractor shall provide the inner vestibule partition, corner pilasters in the vestibule, ceiling beams, cornices, roof, etc., as specified for the openings to Chambers street, including the mullion separating the doors.

Westerly Entrances.

91. The westerly entrances to the north and south entrance halls shall be provided with cast bronze frames with ornamented and paneled pilaster mullions, molded and ornamented cornice with ornamental central member, the frame above the cornice with ornamented mullions and circular transom, and the molded and ornamental entablature which must cope over the granite work. Under the entabulature panels to cover the stair thickness on the inside shall be provided. Above the entabulature frames and mullions to conform to the above shall be provided. The frames shall be provided with sash glazed with clear plate glass. The two lower side sash and the central top sash shall be pivoted and provided with control as specified for the easterly entrance. The work shall show alike on both sides.

On the inside the inner vestibule partition consisting of pilaster frames and mullions with cornice and cheneau, the beams in the ceiling with cornices, the corner pilasters in the vestibule, and the roof, shall be as specified for the openings to Chambers street with the differences shown on the details. The Contractor shall provide the mullions separating the doors for the entrance and vestibule doors.

Elevator Enclosures.

First Story.

92. The openings in the two (2) elevator halls in the first story shall be filled with ornamental enclosures of cast and wrought bronze as per the detail. They shall fill the entire opening formed by the marble pilasters and arch. They shall consist of molded frames, a central mullion member concealing the ducts and treated to match the enclosure, doors with paneled bases, ornamental middle rail and panels formed of twisted bars with cap and base, a molded and ornamented transom over the doors, the grille work above the transom with the large cast spindles, an ornamental and molded transom at the impost height, and the ornamental semi-circular frame above same filled with grille members and large cast spindles. The Contractor shall properly reinforce the work providing back of the transom a continuous channel to receive the hangers and bolting it to the frames and the reinforcement. All open parts on the shaft sides shall be closed by plates. All grilles or open parts of the enclosures, including the doors, shall be backed on the inside by sash glazed with polished wire glass. The glass shall be made accessible for cleaning purposes by hinging the sash or grille and suitable locks must be provided. The grilles forming the mullions and the returns of same shall be backed up with plate bronze. Any framing necessary to carry the saddles and mullions shall be provided by the Contractor.

Fourth Story Enclosures.

93. The elevator shaft openings in the fourth story shall be provided with wrought or cast iron frames and mullions composed of ¼-inch boiler plate and angles and doors built up of rolled members with ⅛-inch plates on each side. The doors shall be provided with panels of ribbed wire glass. The works shall be closed on the elevator shaft side by plates.

Enclosure Above First Story.

94. All elevator openings above the first story up to and including the twenty-fifth story, but excepting the fourth story, shall be provided with molded cast iron frames with ornamented and paneled mullions, with base, ornamented transom and cast frames, mullions and panels above the transom as per the detail. The height of the door and transom member in every case shall be fixed as per the detail, but as the story heights vary the panels over the transom member will, consequently, vary in height. The panels over the transoms shall be open and filled with cast iron spindles as indicated, but the openings must be made with a proper rabbet, so that glazed sash may be added at any time.

The doors shall be built up of rolled members and ⅛-inch thick plates, be paneled and molded, and the upper panels filled with grilles consistsing of twisted wrought bars with molded caps and bases. The grilles of doors and transoms shall be hinged and provided with suitable locks. The mullion member of the enclosure on the shaft side shall be closed by angles and ¼-inch boiler plate. The grille panels in the doors shall be backed with stationary sash glazed with polished wire glass.

Tower Elevator.

95. All openings in the tower elevator shaft from the twenty-fourth floor up shall be provided with cast iron frames and doors to match exactly those specified and indicated for the elevator enclosures above the first floor.

Freight Elevator Enclosures.

96. The openings in Chambers street to the north and south freight elevators shall be provided with box frames built up of channels, angles and plates with T-guides for the counter-weights. The exposed portion of the frame on the exterior must be covered with a molding of cast bronze. The box must be extended at the sides by plates and finished with two angles as indicated on the detail. Above the door the pocket must be lined with boiler plate up to the lintel, and the pockets on either side extended to the same height. Doors must be provided in the pockets at top and bottom which must be controlled by shoulders, lugs and set screws. The doors shall be paneled doors built up of rolled members and ⅛-inch plates with moldings, the exterior side shall be of bronze and the interior of iron, and the ends must be grooved to fit the guide on the frame. The doors shall be hung on a heavy steel chain over specially made roller-bearing heavy pulleys and properly balanced by lead or iron weights, and brass friction wheels must be placed on the ends of the doors at top and bottom. The Contractor shall provide for the openings, checkered top cast bronze saddles securing them by expansion bolts. The doors must be provided with two lifting handles of ¾-inch round stuff on the bottom rail, and with an espagnolette bar placed horizontally on the bottom rail to engage strikes on the backs, the bars shall be controlled by lever handles. The Contractor shall furnish and set a channel iron across the opening above the door and from same hang McCabe, Coburn or equally good ball-bearing hangers, to which shall be furnished and set the Bostwick type of heavy folding gate. The gate shall be provided with guides at the bottom engaging a groove in the saddle. The two parts of the gate shall be provided with a drop latch of form to be approved.

Elevator Door Hangers and Supports.

97. For all elevator doors the Contractor shall furnish and set the Reliance or equally good ball-bearing hangers and all blocking required and bolt them to the framing. For the main elevators they shall be the two-speed type in which both folds of the door slide in the same direction, one at twice the speed of the other. For the tower elevator they shall be of the geared type in which both folds of the door open in opposite directions. The Contractor shall provide supports for the elevator door hangers and do the framing in the shafts in connection with same indicated on the detail. It shall consist of continuous channels at the extremities of the pockets spliced together and anchored to the columns and provided with buffers for the doors. At each side of the doors the Contractor shall provide channels which must be bolted to the door frame and anchored to the masonry.

The Contractor shall provide an angle member bolted to the beams crossing the shafts to receive the angle members of the mullions, and provide and connect to the framing a channel for the support of the elevator door saddles.

He shall also provide any steel required to carry the fireproofing from the arch up to the saddle, in every case bolting it to the framing.

Above the transoms the Contractor shall cover the wall space to the saddle of the floor above with ¼-inch boiler plate with a soffit carried in to the plaster wall below. The work shall be stiffened at the top by an angle iron riveted to same with vertical angle stiffeners if required. In back of the transom of the enclosure he shall provide a channel member as indicated, bolting it to the vertical members and tapping it to receive the hangers.

For the tower elevators the Contractor shall provide a channel at the extremities of the pockets with a top channel member, and fill the space between the door frame and the channels with ¼-inch boiler plate, providing also over the door a channel member to receive the hanger. He shall also provide any supporting steel required for the saddles.

Saddles.

98. The saddles for the freight elevator doors are specified hereinbefore. For all other elevator shaft openings throughout the building the Contractor shall furnish and set cast bronze saddles made as per the detail, with grooved top surfaces and grooves for the guides on the doors. The doors shall be equipped with angle guides. The saddles shall be carried to the extremities of the pocket in every case.

For the exterior openings into the elevator and entrance halls in the 1st floor and for all inner vestibule doors in same, and also for the openings to the telephone rooms and vestibules from the concourses, the Contractor shall furnish and set beveled cast bronze saddles of the necessary width. The elevator saddles shall be bolted to the framing and the door saddles secured by expansion bolts.

Elevator Door Locks.

99. All elevator doors shall be equipped with locks operated by levers, ratchets, etc., which must be controlled by a brass lever or rod placed conveniently on the door. The locks must be so constructed that the doors will lock positively at a distance of 3 to 6 inches from the jamb. The Contractor shall submit the elevator door lock he proposes to use for the Architects' approval before ordering same.

Stair Work.

100. Around the well of the main stairs in the north and south halls in the 2d story, the Contractor shall furnish and set a balustrade of cast bronze made as per the detail. The newels shall be paneled and ornamented and provided with molded caps and bases. The balustrade shall be ornamental in character and be tenoned to top and bottom members; the top member shall be punched to receive the wood rail. The bottom member shall be tap screwed to a channel form member which must be carried down and secured to the framing. The newel post shall be carried down also and be bolted to the framing.

The two runs of stairs down from the 2nd story shall be provided with cast bronze brackets to receive the wood rail, securing them by expansion bolts to the marble.

Across the windows on the platforms below the 2nd story the Contractor shall furnish and set 2-inch bronze pipe rails (I. P. S.) which must turn in at the ends and be screwed to molded sockets, which, in turn, must be secured by expansion bolts.

The four (4) sets of stairs from the 2nd to the 24th floor, and the northerly and southerly stairs to the 26th floor, are provided with strings, fasciae and newels under the second contract (see paragraph 26). This Contractor shall provide railings for the stairs and wells of cast iron as indicated on the details. The balusters shall be tenoned to ½-inch-by-1½-inch members at top and bottom; the upper member shall be tapped to receive the wood rail and the lower tap-screwed to the string. The railings shall be tap-screwed also to the newel posts. All ramps and easings required shall be provided.

The tower stairs from the 24th to the 36th floor shall be provided with bronze wall brackets at 3-foot-6-inch intervals secured by expansion bolts to receive the wood rails specified under Carpentry Work. The rails shall be provided for both sides of the wells.

The circular stairs in the tower from the 36th to 39th floor provided under the second contract (see paragraph 26) must be equipped by this Contractor with lead-filled steel treads of type to be approved by the Architects. They shall have nosings, shall cover the entire area in each case, and at the floor levels the semi-circular area shall be completely filled with the safety tread.

101. All inter-communicating stairs connecting the departments shall be furnished and set by the Contractor. They shall be of cast iron as indicated on the detail and match the four sets of stairs installed under the second contract. The outer strings shall be molded and ornamented, the well fascia shall match the outer string and shall be carried above the floor in each case.

The wall string shall be a plate string with angle lugs riveted to same to receive the treads and risers, and the base shall cope down over the steps. The risers shall be of cast iron paneled and the treads and platforms provided with undertreads as specified before. The wall string shall be secured to the partitions by wrought-iron hangers at 6-foot intervals, and the face string shall be bolted to the framing. The soffits shall be furred and lathed and plastered, and proper supports must be provided for same.

The Contractor shall do all framing required for the stairs, including a frame of T-irons for the platforms, carrying them in sockets cast in the strings.

The newels shall be cast newels paneled and ornamented and with molded caps and bases and drops. The railing shall be an ornamental cast rail to match that specified and shown on the four (4) sets of main stairs. The Contractor must provide all ramps and easings required. Where the stairs are enclosed on both sides, wall strings shall be used and bronze brackets provided to receive the wood rail as specified for the tower stairs, the rails shall be provided for both sides of the wells.

Registers.

102. All register faces and frames shall be of cast bronze of pattern indicated on the details. They shall be provided with registers, and the faces shall be hinged to open and be provided with suitable catches.

They shall be provided behind the grille members of the pilasters of the elevator enclosures in the 1st story halls, in the cheeks of the main stairs in the 1st story elevator halls, on each side of the vestibule at the westerly entrances (including the false register face which must be backed with bronze), at each side of the hall over the vestibule at the westerly entrances, and at each side of the vestibule at the easterly openings.

Under the windows in the 2nd story main halls and in the sills of the windows, the Contractor shall furnish and set cast bronze lattice pattern registers and faces with frames, hinging them to conform to the requirements specified above.

Brass Inlays.

103. In the panels in the floors of the two (2) entrances and elevator halls, the Contractor shall furnish and set brass inlays, ornamental in character as indicated on the detail. They shall be recessed in the stone and be properly anchored in place. There shall be six (6) different patterns of inlays.

Corridor Gates.

104. In the openings to the elevator halls and corridors in the 3rd floor, and from the 5th to 24th floors inclusive, the Contractor shall furnish and set up cast-iron gates with wrought frames made as per detail. They shall consist of a cast frame carried all around the openings, with paneled mullions with molded caps and bases, and wrought frames filled with cast spindles, the whole shall be provided with an enclosed base. The frame and upright members shall be framed to the structural steel. The gates shall match the balance of the work and shall be provided with heavy bronze butts or pivots. One fold shall be provided with the best quality of heavy bronze recessed bolts, the upper bolt to be within easy reach of the floor. The other fold shall be equipped with the best quality heavy cylinder lock to match that used generally throughout the building, and be properly master-keyed to the system as specified hereinafter under Hardware. The latch of the lock shall be controlled by ornamental wrought-iron ring handle. The gates shall be provided with rubber-tipped bronze door stops secured by expansion bolts and provided with hooks to engage eyes on the door.

Directories.

105. The two directories in each of the vestibules at the westerly entrances in the 1st story, including the bronze frames, are omitted from the contract.

Mesh Partition.

106. The switchboard on the 4th floor shall be enclosed by a mesh partition from floor to ceiling. The mesh shall be of ⅛-inch diameter wire, ¾-inch diamond, and the mesh shall be secured to channel iron frames. At 4-foot intervals the mesh frames shall be bolted to upright T-irons framed into the framing of the building. The doors at the entrances shall match the mesh and frames, door frames provided and the doors equipped with heavy bronze butts and heavy cylinder latches with bronze furniture, of type specified hereinafter for pipe shaft doors. There shall be semi-circular guard plates for the latches. The latches must be master-keyed into the system specified hereinafter under Hardware.

The machine for the sidewalk lift near Col. No. 126 in the basement shall be enclosed from floor to ceiling by a mesh partition to match exactly that specified above, including a door with hardware complete. The frame members shall be secured by expansion bolts to the floor and ceiling.

Grilles.

107. The Contractor shall furnish for fifteen (15) windows in the 4th floor cast bronze grilles made as per detail. One shall be placed where indicated on the west side, and the balance on the easterly sides. They must be secured to the masonry by bronze expansion bolts. Where shoulders occur in the granite sills they shall rest on same; elsewhere the Contractor shall provide cast bronze molded members, at two points secured to the sill by expansion bolts to keep the grille above the stone.

Flagpole.

108. The Contractor shall furnish and set on the west side of the building at the 21st floor level a hollow steel flagpole with all fittings as indicated on the detail. The pole shall be of extra heavy pipe graduated in size with screw connections set in red lead, and shall be received at the base by a heavy cast bronze shoe let into the granite work and secured by long brass expansion bolts. The pole shall be supported from above by 1-inch rods enclosed in 2½-inch pipe threaded to the rods, and the rods must engage a fitting around the pole and be secured by nuts and check nuts. The rods must be secured at the top to a ring and plate and the plate bolted through to the steel beam over the windows. The pole shall be surmounted by a revolving truck and copper ball finished in pure gold leaf. The halyards shall be the best quality Manila cable. A brass cleat shall be secured to the sill by brass expansion bolts.

The castings receiving the rods shall sustain safely a pull of 6,000 pounds in the direction of the rods without sign of weakening. This test shall be applied in the presence of the Commissioners' and Architects' representatives.

Vaults.

109. All vaults shall be lined throughout, except the floors, with ⅜-inch plate steel riveted together and to angle iron frames. The frame at the bottom shall rest on the arch. The space between the steel and the brick shall be solidly grouted with Portland cement grout. The entrances shall be the stock form vault vestibules of the Diebold Safe & Lock Co., Herring-Hall-Marvin Safe Co., Mosler Safe Co., the Victor Safe & Lock Co., or an equally good make. They shall consist of steel inner and outer doors and the vestibule shall be riveted to the steel lining. The outer face shall have a flat steel trim around the openings as a finish. The doors and vestibules shall be finished in the best quality baked enamel finish with a gilt bordering, and the doors shall be provided with eight (8) bolt best quality combination locks. The bolts and exposed portions of the locks shall be nickel-plated in the best manner. The Contractor shall submit drawings or illustrations of the vault vestibules he proposes to furnish for the Architects' approval before ordering same.

Mail Chutes.

110. There shall be four (4) mail chutes, two (2) from the north entrance and two (2) from the south entrance halls. They shall be model C, pattern of 1905, made by the Cutler Mfg. Co. of Rochester, N. Y., or one equally good, with cast bronze mail boxes of design indicated on the details. There shall be two mail boxes in the 1st floor located in the vestibules to the concourses, and the chutes shall extend in a vertical line from the boxes to a point 4 feet 7 inches above the finished 25th floor.

The mail chutes shall be made of No. 16 cold-rolled pickled steel with fronts of plate glass not less than ¼ inch thick, set in frames of bronze reinforced by steel angles and made in the form of doors hinged at one side and closed at the other by means of locks controlled by keys in the hands of the Post-office authorities. All openings for mail shall be equipped with locks by means of which they can be opened and closed by the authorities and operated by the same keys. The chutes shall be provided with suitable caps and bases of bronze at each floor and ceiling; all exposed bronze work shall be finished statuary bronze color; steel bodies shall be given three coats of japan baked on and finished dull.

The installation shall comply in every respect with the rules and regulations of the Post-Office Department (Order No. 148), to be in connection with the United States free collection service, and with the written approval of the Postmaster of New York City.

The chutes shall be secured to angles of sufficient depth to receive the marble wainscot in every case. The angles shall be riveted to the floor framing and covered with sheet bronze.

A mail box of cast bronze shall be set in the centre of the building in the 25th floor, as indicated on the detail, and from this box a chute shall extend up to a point 4 feet 7 inches above the finished 34th floor. The chute shall conform in all respects to the requirements specified above for those in the main building, except that the angles carrying the chute may be painted instead of bronze covered. The boxes shall be secured to steel anchors built in the masonry.

The Contractor shall furnish and install the three private mail chutes indicated on the 17th, 18th and 19th floor plans. One shall extend from the 17th to 19th floors, one from the 18th to 19th floors and the third in the dumbwaiter shaft adjoining Column No. 124 from the 18th to 19th floors.

The chutes shall be built of No. 16 gauge cold-rolled steel riveted to angle iron frames which must be secured by bolting to the framework of the shafts. They shall have flanges at the bottom which must be connected to the frames of the doors which are provided under Hollow Metal Work. The work shall be finished with two coats of japan baked on. The upper openings shall have flange connections and cast bronze frames with a simple finishing trim on the plaster face. The frames shall be rabbeted and simple paneled bronze doors provided; the doors shall be hinged at the top with spring hinges. The frame of the door in each case shall extend through the partition.

Skylight Curbs.

111. The new skylight shall have an angle curb with an angle riveted to same and tapped to receive the skylight.

All new ventilators breaking through the roof shall have curbs of 10-gauge steel with an angle flange to set on the arch; the curbs shall be carried up above the roof and angle flanges riveted to same to receive the flashing. The curbs shall be made as per the detail.

At the foot of the two (2) large shafts at the north and south ends of the 25th floor, a channel frame with angles riveted to same and tapped to receive the ceiling lights shall be furnished and bolted to the framing of the shafts.

Railings and Fasciae.

112. The edge of the central high floor of the 4th story running east and west across the building shall be a 4-inch angle iron fascia bolted to the framing with a small channel riveted to it on the inside to receive the cement floor. All railings indicated on the above fasciae and at the sides of the steps shall be 1½-inch iron pipe rails with 1-inch intermediate rails with ball-form fittings and uprights at about 5-foot intervals. The uprights shall be screwed to flanged sockets which must be tap-screwed to the fascia.

Across the windows in Rooms 223-N, 221-N, 219-S and 216-S in the 2nd floor, there shall be 1½-inch brass rails, iron pipe size, in molded sockets which must be secured by expansion bolts to the masonry.

Shaft Gratings.

113. The four (4) large pipe shafts on the easterly side of the building adjoining the toilets shall be covered at each story with wrought-iron gratings composed of ¼-inch by ¾-inch bars 2 inch on centre, tenoned to ⅜-inch by 1½-inch frames. The gratings shall fill all spaces in the shafts not occupied by pipes, and all necessary bearings must be provided and bolted to the steel framing. The gratings shall be arranged to be removable.

The exposed steel framing in the shafts in each story shall be covered with wrought-iron fasciae bolted to the framing carried above the floor and finished with a channel laid flat to receive the cement floor in the pipe space.

Steel Floors.

114. The Contractor shall furnish and set around the north and south tanks in the 26th story, floors of ⅜-inch thick diamond top pressed steel floor plates carried around all sides of and under the tanks to the safes. The floor plates shall be secured by countersunk tap-screws not over 6-inch centres. All framing required to support the floors shall be provided by the Contractor along with all blocking up from the existing steel. All new framing shall be bolted to the existing steel, shall be arranged to give supports at not over 4-foot intervals in both directions, and shall include a heavy channel with angle struts, bases and tops on the face of the light shaft walls. Where the steel floor plates are above the surrounding floors, a fascia of plate steel and angles must be provided and carried down below the level of the surrounding floor, and shall be bolted to the framing. The existing railings in the two rooms shall be removed and any damage done in doing so shall be repaired in the best manner.

Lintels.

115. Lintels of ½-inch by 2-inch bars shall be set over all openings in hollow tile partitions, including openings for ducts, registers, pipes, etc., except where drawn steel bucks are provided for hereinafter.

At the easterly ends of the two main elevator shafts at each story heavy angle iron lintels shall be set to carry the furring of the shafts. They shall be arranged either to bear on the brick wall or be bolted by proper connections to the framing of the building. Where the furring changes direction the main lintel shall be carried over to bear on the brick wall and a small member framed to same to receive the other leg of the furring.

Also for the circular headed westerly windows on the third landing of the stairs from the 1st to 2d floor the Contractor shall furnish and set heavy angle lintels bent to form and secure them to the walls by expansion bolts. He shall provide similar lintels for all 1st-story elevator openings, and also over all other 1st-story openings provide rolled steel lintels to conform to the foregoing.

Incidental Framing.

116. The frame for all dumbwaiter shafts, as indicated on the detail, shall consist of angle corners with channel framing around the openings; the upper and lower member of the opening framing shall be carried over and framed to the angles. The corner members shall be properly framed to the structural steel of the building. The framing for the openings shall include those at the foot of the mail chutes.

The Contractor shall furnish and set the necessary framing to carry the inside walls of the wells in the main stairs in the north and south halls from the 1st and 2d stories. This shall include the wall from just above the first platform up to the 2d floor. The beams shall be doubled or provided with plates to receive the marble and backing, and shall be mung by proper connections from the steel work of the 2d story.

The Contractor shall provide any steelwork in general necessary to support the marble work. He shall provide and set 4-inch channel iron bucks for all openings in the 1st story where required, anchoring them to the masonry and punching and tapping them to receive finished work.

The Contractor shall do any framing necessary to receive the upright angles of the mail chutes, riveting it to the existing framing and tapping it for the connection of the mail-chute work.

Miscellaneous Items.

117. The Contractor shall furnish and set safety treads with nosing of make to be approved, with anchors for the steps in the 4th story and north telephone room in the 1st story specified hereinbefore; also all ties required for the enamel brick specified under Masonry.

The Contractor shall also provide any anchors required for connecting the work of this contract to the mason work done under the earlier contracts.

Measurements.

118. The Contractor shall take all measurements at the building for the work of this contract.

Cutting.

119. The Contractor shall do all cutting, fitting, tapping, punching or drilling of the Ornamental and Miscellaneous Metal Work to accommodate all other work, and shall furnish the necessary tap or other bolts for the connections of all other work to same. He shall do all cutting, tapping or drilling of metal work installed under the earlier contracts required by all other work herein contained.

Painting.

120. All steel and iron work shall be painted to conform to the specification for painting under Structural Steel.

Roofing and Sheet Metal Work.

Repairs to Tile Roofs.

121. After the curbs for the ventilators are installed in the turrets in the 29th floor and in the north and south roof houses in the 27th floor, and the curbs for the new skylight and two ventilators installed in the main roof of the 26th floor, the Contractor shall repair the roofs in the best manner and in accordance with the following specification: The concrete fill and Portland cement mortar finish shall be that specified under Mason Work. On this cement surface the Contractor shall apply a coat of coal tar pitch and five thicknesses of 14-pound saturated roofing felt. The felt shall be laid with a lap of one-fifth the width of the sheets and all laps must be solidly cemented together with the pitch. Each layer of felt must be laid separately and thoroughly coated with pitch. There shall be used not less than 75 pounds of roofing felt and 25 gallons of pitch for each 100 square feet of roof surface. The felt and coal tar pitch shall conform to the specifications for same under "Waterproofing." The new waterproofing must be lapped to the existing to conform to the above requirements.

The junctions of the roofs with the ventilators and skylight shall be base flashed with 16-ounce soft copper carried out 4 inches on the waterproofing and up a minimum distance of 12 inches on the vertical surface.

The skylight flashing shall be carried up to the curb and on the top of same to the inside.

Flashings over 12 inches high must be stiffened by vertical joints made standing and double locked. Elsewhere the joints in flashing must be flat locked and soldered joints. All flashing shall be cap flashed with 16-ounce cold rolled copper carried down to cover 4 inches. The cap flashing shall be riveted to the ventilators and set in best quality of elastic cement.

On top of the waterproofing there shall be laid and properly graded a bed of mortar not less than 1 inch thick, consisting of one (1) part Portland cement to three (3) parts sand, and on this bed the best quality of 6-inch by 9-inch by 1-inch vitrified, square-edged, self-glazed roofing tile carried up close to all flashings. After laying all joints shall be grouted with Portland cement grout (1 to 1) and the roofs cleaned off immediately after grouting. Finished roof surfaces must drain in all cases as indicated on the plans. Crickets must be formed behind skylights and other work breaking through the roofs to shed water.

Special shaped tile shall be provided where required.

Skylight.

122. The new skylight at the north end of the 26th floor span shall be of an absolutely "puttyless" type, such as the National System, Anti-Pluvius, or an equally good make, to be approved by the Architects. It shall be constructed on rolled steel frames with gutters under all divisions. All exposed portions of the skylight above the roof shall be of 16-ounce cold rolled copper secured to the framing by brass bolts and nuts. All metal used in the skylight other than the supporting bars (which must be entirely covered with copper) shall be of copper, but that on the underside may be lighter than the above. All glazing shall be done with the best quality of ribbed wire glass ⅜-inch thick, in which the wire is in a plane equidistant from the two faces of the glass. All glass shall be in sheets not over 20 inches wide and bearing bars must be provided on all sides. The glass must not bear directly on the steel. The steel curbs are specified under Ornamental and Miscellaneous Metal Work, and all other structural steel necessary to the completion of the work must be furnished and set by the Contractor. The steelwork must be framed and bolted together and to the curbs and must be strong enough to carry the live load plus the dead weight of the skylight construction without deflection.

The skylight shall be provided with a ventilator at each end carried through the curb. It shall be "Globe," "Anchor," "Burt" or an equally good ventilator of 20-ounce copper protected by cowls and the junction of the curb shall be properly flashed with 16-ounce copper. The ventilators shall be provided with dampers and controlled from the floor below by chains with brass pulls.

The Contractor shall submit working drawings of the skylight for the approval of the Architects before beginning the work.

Mesh Guard.

123. The skylight shall be protected by guards of 1⅜-inch diamond mesh of ⅛-inch-diameter copper wire, set in frames with angle supports down to the skylight bars, the screen to stand 6 inches away from the glass.

Louvres and Frames.

124. All exterior windows in the four (4) new fresh-air chambers in the 4th floor shall be provided with louvres and frames of 20-ounce cold rolled copper, the louvres shall be turned down 1 inch at the bottom and up 1 inch at the top and stiffened by riveting to iron bars.

The frames shall be made, as per detail to be given, with sills and be anchored to the masonry by expansion bolts. The Contractor shall furnish any finishing moldings or flanges required on the frames for connection with other work.

Screens of ½-inch-square mesh made of ⅛-inch-diameter copper wire set in copper channel frames bolted to the louvre frames shall be set back of the louvres.

Laboratory Flue.

125. A flue of No. 18 gauge galvanized sheet steel shall be set in Room 2510-S. It shall be made with clinched and riveted connections and shall be secured to the partition by built-in anchors of ⅛-inch by ¾-inch iron spaced at 4-foot intervals. The flue at the bottom shall be finished by an elbow properly reinforced by angle irons for stiffness and have all elbows required in the flue above. The flue shall be carried through the ceiling and in the space above same to the skylight, where it shall be carried out through the curb, finished with a ventilator of type specified above for the skylight, and the junction of the ventilator with the curb shall be flashed with 16-ounce copper.

Copper Roofing.

126. All portions of the roofs of the two vestibules at the easterly entrances, and of the roofs of the duct spaces at the sides of same, shall be roofed with 16-ounce cold rolled copper. This shall include all roof surfaces outside of the transom frames and sash. The copper shall be laid in 14-inch by 20-inch sheets with flat seams locked and well soldered. The sheets shall be secured by nailing through copper cleats locked in the joint, four to each sheet. The roofing shall be carried up as a flashing on all sides to heights which will be determined by detail. When the flashing finishes against bronze it shall be secured to same by tap screwing through ¼-inch-thick brass bars and when against stonework it shall be carried up to the nearest stone joint, be capped, and the capping shall be wedged and cold leaded into the joint. The roofs shall drain to the sides in each case, where small scuppers 2 inches deep must be provided. The scuppers shall be covered with strap guards crossed and soldered together. Two-inch leaders of bronze to match the surrounding framework shall extend from the scuppers and discharge through reinforced elbows on the granite platform at the entrances.

Skylight Repairs.

127. The curb ventilator on the southerly skylight on the 26th floor plan shall be removed and the curb repaired with 16-ounce copper conforming to the foregoing requirements for flashing.

Guarantee.

128. The copper work of roofs, the skylight, flashing, etc., shall be guaranteed water-tight for a period of two (2) years after its acceptance by the Architects, and should any leaks develop within that time the Contractor shall, on notification, make all necessary repairs without cost to The City.

Iron Furring.

General Requirements.

129. The Contractor shall provide all attachments to the work of the earlier contracts necessary to secure all furring work securely in position, doing all cutting and making good the work of the earlier contracts required. Connections to such work shall be by bolts.

All furring shall be done with suitable rolled shapes of soft steel bent to the forms required and secured together with bolts and nuts. Furring shall be done with angles, channels or tees—no rounds or squares will be permitted. Flat members may be used, but they shall not be less than 3-16 inch by 1 inch in size and where used they must be set on edge and not flatwise, except in forming molded work. The main furring bars shall be not less than 1½-inch by 3-16 inch angles, and cross-furring bars to receive lathing must be spaced not over 12 inches on centres and all furring must be so stiff that there will be no deflection when the finished plastering or other work is applied. Drop members shall be not less than ¼ inch by 1¼ inches.

All connections throughout the work shall be bolted; no connections in furring secured by wiring will be permitted. All connections to masonry must be made by expansion bolts. All flat work shall be braced at 5-foot intervals and vertical and molded work as often as may be required for stiffness.

Where doors are indicated or required for access to the space above the furring and for all ceiling sash under skylights, the Contractor shall provide and set channel iron frames with angle lugs riveted to same to receive the frames of the sash and doors. The channel frames must be hung from the framing above by heavy hangers. In the case of ceiling lights the shaft walls up to the skylight must be furred to match the balance of the work.

The heights of the finished ceilings in all cases will be determined later.

Wherever furred ceilings are lower than the heads of the windows occurring in the furred spaces, the ceiling furring must be sloped up at the window to give room for the trim and triangular cheeks provided for the bays so formed.

The Contractor shall do all cutting, drilling, tapping or punching of steel work entailed by the furring work, and he shall do all cutting of the furring work necessary to accommodate all other work. He shall also provide tap bolts for the connection of all work to the furring work.

All material for use in furring must be dipped before assembling in Minwax, Dehydratine, Esco, Canrobert's Rustproof, Universal Compound or an equally good paint having a bituminous base and of the consistency specified under Waterproofing.

Work to be Done.

130. The following furring work shall be done as a part of the Definite Contract:

The soffits of all openings in all exterior walls, concourse walls enclosing the finished part of the first story, and Chambers street walls, except the freight elevator openings in Chambers street, the work shall be carried in to the frame on the soffits and up vertically on the plane of the inside of the wall to the arch. The above work shall end with the 25th story, except that it shall cover exterior openings in the roof houses in the 26th story north and south of the tower.

Under all expansion loops of the steam risers in the 11th and 18th story ceilings.

The ceilings of the two telephone rooms (omitting the closets), Janitor's closet,

The ceilings of the north and south elevator and entrance halls in the 1st story and stair hall and the well under the main stairs in the 1st story.
above the marble cornice to receive the artificial stone.

The ceilings of all bays in the above elevator and entrance halls which are below the level of the main cornice, to receive the marble ceilings. This shall include the ceilings of the first two runs of the stairs to 2d story.

Under all dumbwaiter pits and other reinforced concrete floor construction where required to receive plaster.

Over dumbwaiter and private mail chute doors in front of the boxes for the doors.

Over the heads of partition sash and doors in partitions, the furing shall be caried to the arch above. This furring shall be doubled in every case to carry the two faces of the partition to the ceiling. (This item shall cover in the definite contract only the work over partition sash in partitions enclosed by the dotted lines on the various plans. In all other cases it shall be furnished under the contract units). For isolated partition sash the above furring will not be required.

The entire ceiling of the 25th story.

All ceilings above the 1st story indicated on the drawings to be hung, when occurring within the dotted lines on the various plans.

The ceilings of the north and south stair wells and halls, and elevator despatcher's rooms in the 26th floor.

The shafts above all ceiling sash in the 25th and 26th floors.

The backs of all interconnection boxes, panelboards or similar devices provided under Electric Work and the backs of any valve pockets in partitions required by the Plumbing Work.

To enclose projecting brackets on steel columns throughout the building, the furring to be done to give a symmetrical cap on all sides.

To form all ornamental plaster work, cornices and plaster beams and transoms occurring either in the spaces specified to be finished under the Definite Contract or so shown on the plans by the dotted lines. The above shall include the beam crossing the elevator halls at the junction of the corridors with same.

All other furring work not specified above as in the Definite Contract shall be provided under the contract units.

Lathing and Corner Beads.

General.

131. All metal lath used shall be No. 20 wire cloth two and one-half meshes to the inch, reinforced with 3-16 inch rod stiffeners woven in every 7 inches, No. 24 gauge, "A" grade Cleveland, Herringbone, Toncan or General Expanded metal, or an equally good metal lath. All metal lath shall be galvanized, be given a lap of 6 inches in every direction, and be firmly wired to supports at 8-inch intervals by No. 18 annealed lacing wire.

Where Used.

132. All furring work specified or indicated on the drawings, both that of the Definite Contract and the contract units, shall be lathed to conform to the foregoing requirements. The contract unit for furring shall include the lathing.

Lath shall be used over all exposed steel wherever required to receive plaster work, such as bucks, brace posts, etc., and including steel provided under the earlier contracts. Where such lathing of exposed steel to receive plaster occurs within the spaces enclosed by the dotted lines, it shall be included in the Definite Contract; elsewhere it shall be covered by the contract unit for the steel requiring it.

In addition, in the concrete fill of all spaces specified herein to be floored in cement, mosaic or tile, the Contractor shall bed No. 18 gauge galvanized expanded metal, giving it a 6-inch lap. Where the space occurs within the dotted lines on the various plans, it shall be furnished as a part of the Definite Contract; elsewhere it shall be included in the contract units.

Corner Bead.

133. All corners in plastering throughout the building shall be equipped with the National, Hunt, or an equally good brand to be approved, galvanized metal corner bead, set plumb and nailed to the terra cotta partition and furring work.

Plastering.

Materials.

134. All sand, lime and Portland cements shall be as specified under Materials in Mason Work.

All Plaster-of-Paris shall be King's "Diamond Brand" or an equally good brand to be approved.

All Keene's cement shall be of the best quality and of American manufacture.

Mixing.

135. All Portland cement mortar specified hereinafter shall be mixed in the proportion of one part cement to three parts sand.

All other plastering shall be done with mortar made as follows:

The scratch coat on lathing shall be composed of one barrel of lime paste to which shall be added three (3) barrels of sand and plenty of good, clean, well-beaten and water-soaked long winter cattle hair.

The brown coat shall be of a composition to match the scratch coat, except that the quantity of sand shall be increased to four (4) barrels.

Each cubic yard of the above mixtures shall be gauged with two bags (100 pounds each) of Keene's cement "Regular." The finishing coat shall be applied when the brown coat is nearly dry. If the brown coat is bone dry, it shall be sprinkled with clean water.

The finishing coat shall be composed of the following: To each 100 pounds of Keene's cement "Regular" shall be added one (1) pail of lime paste. It shall not be troweled to a finish until nearly set. This finish coat shall be put on in the best possible manner and troweled to a smooth-polished surface.

All mortar boxes shall be cleaned, and water in which tools have been washed shall not be used in tempering mortar.

All lime shall be slaked in clean, watertight boxes or casks and then be run through sieves of ¼-inch mesh into other watertight boxes to separate the unslaked parts and residue. Care shall be taken in slaking the lime that it is not allowed to burn, and it shall be allowed to stand for two weeks before using.

The Contractor may substiute for the above the best quality of patent plaster of the Rock Wall, Acme Cement, King's Windsor Cement, Phoenix, Ivory, New York Pulp Plaster, or an equally good brand to be approved. It must be mixed by the manufacturer, and the scratch coat shall contain plenty of good, clean, well-beaten and water-soaked long winter cattle hair, and when the plaster is delivered at the building it must be ready for tempering with water.

The hard finish shall be the best quality of prepared finish made by the manufacturer of a brand to be approved.

Notes on Plastering.

136. All plastering on brick and fireproofing shall be done in the brown and finishing coats, and on lathing in the scratch, brown and finishing coats.

The Contractor must screed horizontally for the brown coat at 5-foot intervals to obtain perfectly true work, then float on the brown coat to an even surface. The finish coat shall be thoroughly troweled on and left perfectly smooth.

All surfaces intended to be plastered must be thoroughly cleaned off and dampened before any plastering is done. Isolated columns occurring in spaces shall be treated as wall surfaces.

Each coat must be sprinkled with clean water before the succeeding coat is applied.

Plastering must go to the floor level wherever possible and finish up to and flush with all grounds.

The plastering must be carried in to the frame on the jambs and soffits of all openings in exterior walls and on the jambs and backs of recesses under windows, finishing against the stool.

Portland Cement Work.

137. The following Portland cement work shall be done as a part of the definite contract. It shall be two-coat work finished by troweling and shall be carried in on the jambs, soffits and sills of openings occurring in the spaces to the frames:

The walls and ceilings of the two (2) fan rooms and the outside of the two (2) light shafts at the north and south ends of the 26th floor.

The walls and ceilings of the two (2) fan rooms in the 25th story, including the shafts under the skylights.

The ceilings of the new fresh air chambers and fan spaces in the 4th floor.

All hollow-tile partitions in the 4th floor, except in the spaces specified hereinafter to be plastered. This shall include isolated columns.

Plastering—Toilet Rooms.

138. The walls and ceilings of all toilet rooms and of the passages or vestibules leading to same, and also of the retiring rooms adjoining toilets, shall be plastered with the material first mentioned, *i. e.* lime mortar gauged with Keene's cement and finished with Keene's cement gauged with lime paste. Where the space occurs within the dotted lines on the various plans it shall be in the definite contract, elsewhere it shall be done under the contract units.

The following plastering work shall be done as a part of the definite contract in accordance with the foregoing requirements:

All elevator shafts, including the tower elevator, from bottom to top.

All wall and ceiling surfaces in the spaces under the main stairs in the 1st floor in the north and south halls, except the closets in the telephone rooms.

All Chambers street and concourse walls and all exterior walls above the 1st story up to and including the 25th story and including the walls of the boiler flue.

All wall and ceiling surfaces occurring in the spaces enclosed by the dotted lines on the various plans, except the pipe spaces adjoining toilets.

The walls and ceilings of all stair halls, elevator halls, corridors, closets, storage rooms, locker rooms and filing spaces in the 4th floor.

The well wall and hall walls and ceilings of the central stairs from the 24th to the 36th floor.

The shafts of all dumbwaiters.

The light shafts at the north and south ends of the 26th floor.

The entire ceiling of the 25th floor, including the shafts under the skylights.

The walls and ceilings of the stair wells and halls and elevator dispatcher's rooms in the 26th story, with the shafts under the skylights.

The plastering will be omitted where marble or glass wainscot is indicated.

All other plaster work shall be done under the contract units specified hereinafter, but shall conform to the foregoing general requirements.

Cornices and Molded Work.

139. The following ornamental work shall be done as a part of the definite contract:

The plaster cornices in the elevator halls of the 2nd and 3rd floors and above the 4th floor up to and including the 25th floor, the cornice shall be made as per detail This shall return above the frame member of the iron gate at the corridor openings and a small iron cover joint member provided for the junction. Where the gate does not occur the full beam shall be provided at the above point paneled on soffit and carried up on the reverse side to meet the steel cornice of the corridor.

The molded caps of the isolated columns in the 2nd story halls.

Artificial Stone.

140. All artificial stone shall imitate light Botticino marble and be composed of white Portland cement, pure white quartz, iron oxides, natural Portland cement and clean sharp sand, with iron reinforcements where necessary. All work shall be cast and set in place with mortar joints, and each piece shall be securely anchored to the furring or masonry.

All artificial stone shall be a hard material to match in color and texture the real marble, and the color in every case shall be a body color and not a wash.

The Contractor shall submit to the Architects for their approval samples at least 4 feet by 4 feet in area of the artificial stone he proposes to furnish. If the samples

do not meet the Architects' approval, he shall make further samples until the desired color and texture is obtained. The approved samples shall be left with the Architects until the completion of the contract, and the work furnished by the Contractor shall equal the approved samples.

Work to be Done.

141. All artificial stone shall be provided as a part of the definite contract.

The vaulted ceilings of the two (2) elevator halls in the 1st story, with all penetrations and all vertical surfaces above the marble cornice over the pilasters, shall be finished in artificial stone to conform to the foregoing requirements.

The panels in the lunettes shall be of marble as indicated on the detail.

Patching.

142. The Contractor shall patch and make good all broken and defective plastering and artificial stone in the best and most workman-like manner after the completion of all other work, leaving the plaster work free from cracks, stains and other defects.

KALAMEINED WORK.

General Requirements.

143. All kalameined work shall be of the best type of make to be approved by the Architects. All kalameining shall be done with 20-gauge statuary bronze of composition to conform to that specified for Ornamental and Miscellaneous Metal Work. The metal shall cover all exposed surfaces of doors, frames and other work and shall be carried properly under back edges. All kalameined work shall be drawn over American white oak cores. All exposed wood shall be primed with one coat of best quality red lead and seasoned linseed oil, 18 pounds to the gallon, before leaving the shop.

All kalameining shall be done from details to be given later and no extra charge will be allowed for new dies for moldings, etc. The frames, moldings, etc., shall be as detailed and approved by the Architects.

The stiles and rails of doors must be joined by a mortise and tenon glued in, and, in addition be secured by long screws. The junctions of stiles and rails shall be made weathertight.

All doors shall be so constructed that with the moldings removed no portion of the wood will be exposed.

Door frames shall be rabbeted frames 2 inches thick. All kalameined doors shall be 2¼ inches thick, except closet doors which shall be 1¾ inches thick, and shall be provided with molded panels. All kalameined finished moldings or hanging stiles required to complete the work shall be provided. All glazings shall be done with selected, best quality American plate glass ¼-inch thick, free from waves, bubbles, blisters and defects of all kinds. All glass shall be bedded in putty, be back puttied and secured in place by kalameined moldings and bronze screws. Kalameined moldings and screws shall be provided for the junction of kalameined and other work.

The Contractor shall furnish and set all rough hardware, such as screws, nails, etc., required to complete the work.

The finishing hardware for kalameined work shall be as specified hereinafter, and be fitted and set by the Contractor.

Work To Be Done.

144. The openings to Chambers street and the concourse from the northerly and southerly elevator halls shall be provided with outer and inner vestibule doors made to conform to the foregoing requirements. The doors shall be provided with long panels of clear plate glass. The doors shall be hung from cast bronze frames.

The westerly and easterly entrances to the north and south elevator halls shall be provided with outer and inner doors glazed with long panels of clear plate glass made to conform to the foregoing requirements. The doors shall be hung from the cast bronze frames.

The four (4) openings from the two (2) entrance halls to the spaces under the main stairs shall be provided with frames and paneled doors, as shown on the detail, with simple trim on the reverse sides, all made to conform to the foregoing requirements.

The openings in the telephone rooms under the main stairs in the first story leading to the closets shall be provided with frames, paneled doors and simple trim on both sides, all made to conform to the foregoing requirements.

The openings from the concourses to the telephone rooms under the stairs shall be provided with kalameined frames with molded transom bars and transom sash, room side simple trim, and doors glazed with clear plate glass as shown on the detail and in accordance with the foregoing requirements.

The transom sash shall be glazed to match the doors.

Vestibules to Telephone Rooms.

145. The vestibules to the telephone rooms in the north and south concourses shall be built of kalameined work and as shown on the detail. The openings shall be provided with frames and doors glazed with long panels of clear plate glass. The balance of the work shall consist of paneled pilasters at the corners with half pilasters against the walls, the pilasters provided with molded caps and bases, and the whole carefully coped to the concourse wall. Between the pilasters there shall be frames and stationary sash glazed with clear plate glass of form to match the paneling of the doors. Above the pilasters shall be a molded entablature consisting of architrave frieze and cornice, and the vestibules shall be roofed with a solid roof paneled on the inside. All surfaces on the inside of the vestibules shall be finished surfaces with a cornice under the roof. The vestibules must be constructed so as to be readily removable, and brass bolts, sockets and angles must be provided for this purpose. For the connection to the walls and floors bronze sockets must be provided and built in securing them by expansion bolts. The floor and wall sockets shall remain in position when the vestibules are removed. As far as possible the bolts or other fittings used in securing the parts together must be concealed.

Windows.

146. The exterior windows in the spaces under the main stairs in the 1st story shall have finishing moldings or trim.

HOLLOW METAL WORK.

Sheet Steel.

147. All sheet steel used in the construction of interior doors, windows and trim and of other interior finish, shall be first quality American open-hearth steel furniture sheets of homogeneous texture throughout, carefully manufactured from first quality selected billets to the following mill specifications, viz.: full cold-rolled, full pickled, reannealed, patent or stretcher leveled and oiled.

Strip Steel.

148. All strip steel shall be first quality open-hearth stock, full cold-rolled to an extra smooth finish, full pickled, reannealed and oiled.

All sheet and strip steel shall be acurately rolled to specified thickness.

Tests.

149. Before being used all steel for moldings or other drawn or sharply-formed work, shall be subjected by the Contractor to bending tests of 180 degrees both ways of the grain, and shall stand hammering down flat at the bend without sign of injurious fractures.

All steel shall be oiled at the mill and fully protected from the weather during transit, and shall be delivered to the works of the Contractor free from rust.

Shop Inspection.

150. The Contractor shall make a rigid shop test and inspection of all steel, and on the proposed work shall use only stock which presents in the sheet a clean steel grey surface, absolutely free from rust, scale, slivers, buckles, black spots or other faults which may impair the strength, the finish or the smooth appearance of the work.

The Contractor shall use no sheet or strip steel on the work which does not fully comply with each and all of the above specifications. All steel which develops faults or failure under working operations during progress of the work shall be removed by the Contractor at his expense and replaced by material of the proper grade.

Flat Steel Wire.

151. All flat steel wire shall be open-hearth stock, full cold-rolled, full pickled, reannealed, straightened and oiled, rolled true to section with smooth rounded edges, and shall in all cases be clean, bright material of first quality and of workmanlike mill finish throughout.

Round Steel Wire.

152. Round steel wire shall be first quality mild Bessemer stock and, unless otherwise specified, shall be annealed and cold-drawn to a full, bright finish and oiled to protect from rust.

Note.

153. Strip steel shall be used throughout for moldings, jambs, architraves, castings, etc, and sheet steel for panels or other large surfaces.

Workmanship and Fabrication.

154. All steel work to be made under this specification shall be executed in the best form and quality of steel cabinet workmanship. All cutting, notching, piercing, forming, welding, riveting and other operations shall be done in a good workmanlike manner. All rivet work shall be done cold and set hard and tight by hammer blow process. Flush rivets shall be properly countersunk, carefully set, clipped and filed or ground to present a perfectly smooth, flush surface. All round, oval and flat-head rivets shall be driven in a neat manner and set with smooth concentric heads, close and tight to the surface of the work.

When the nature of the work permits, all joints shall be spot-welded by the oxy-acetylene process. Electric spot-welding shall be used where practicable in preference to screws, bolts or rivets.

Leveling and Straightening Steel.

155. The Contractor shall, during the progress of the work in his shop, do such restraightening and releveling of the several parts as may be required by the nature of the work or to fulfill the specifications. All steel plates for panels or doors and other exterior work of similar character shall be rerolled and hammer leveled until free from perceptible waves, buckles, twists or other similar defects. All perceptible twists, buckles or other like defects which develop during the various cutting, forming, piercing, drawing, assembling or other shop operations shall be removed as the work progresses.

On all work held together or assembled by means of rivets, screws or bolts or like methods, the rivets, screws, etc., shall be of such diameters and spaced close enough on centers to prevent distortion or weakening of the parts or buckling of plates or other failure.

All rivet holes shall be a close fit for the rivets, shall match perfectly in the several connecting parts of the work, and no injurious drifting, redrilling, drawing or forcing operations shall be done on any part of the structure.

All portions of the work accessible to the user in operation shall have smooth, softened edges, free from projecting flanges, fins, wire edges, sharp corners or other roughness, and all joints and connections in the structure shall be closely fitted, with all flanges or other connecting parts drawn tightly together to a close fit.

Pickling Bar Stock.

156. All hot-rolled or forged steel bars, shapes and other parts shall be free from rust, shall have all scale thoroughly removed by pickling process before being used on this work, and shall be washed free from pickle and scale to a clean, grey-steel surface. All exposed or semi-exposed surfaces shall be dressed free from waves and lumps to an even finish.

Prevention of Rust.

157. During fabrication of the work in the shop the Contractor shall exercise special care to protect it, by oiling or otherwise, against rust. The inner concealed surfaces of all made-up joints and structure, prior to making, shall be cleaned free from oil and dirt, and treated to a protective coating properly adapted to the character of the work and satisfactory to the Architects or their representatives.

Welding.

158. All spot-welded joints shall be executed in a workmanlike manner, cleaned free from scale and dressed to a true surface.

Prior to application of enamel finish, all exposed surfaces shall be made free from lumps, waves, buckles, ridges or other injurious defects, and shall present a clean, steel-grey appearance, with all jointing carefully executed in a substantial manner and of neat workmanship throughout.

Fitting.

159. The Contractor shall exercise special care in the fitting of all loose or operative devices and parts, such as sashes, doors, etc., with their attached hardware and other parts, all of which shall be test fitted to give perfect freedom in operation and a good workmanlike fit in connection with adjacent or co-operative parts of the structure. All parts shall be accurately formed or machined to the proper dimensions, and no injurious hammering, distorting or other destructive methods shall be used in fitting, adjusting, fabricating or erecting any portion of the work.

Test Erection.

160. All knock-down work shall be accurately erected and test assembled at the shop prior to application of the final coats of baked enamel finish.

Shop Inspection.

161. Each piece of assembled work, prior to final japan finish, shall be given a special inspection as to its compliance in every respect to the drawings and specifications, and shall then be finished in baked enamel as hereinafter described.

Hardware Tests.

162. All hardware and other fittings shall be attached to the work at the building in a neat manner and, prior to shipment, the Contractor shall make such examinations and tests of his work as shall insure its operation in every particular.

Material.

163. All steel used in the construction of steel doors, windows and trim, shall be as hereinbefore described.

Trim.

164. The construction of all work shall be in compliance with the typical detail drawings accompanying this specification, and all interior finish and trim shall be erected and substantially secured in place at the building by bolts, screws, anchor plates and clips as shown, which in every instance shall be concealed except where the Architects expressly approve other methods. The Contractor shall, prior to proceeding with the work, submit models and samples of construction to the Architects for their approval, and shall proceed with each specific part of the work only after the models and samples demonstrating it have been approved.

The minor details of construction are not shown in the typical drawings, but the Contractor shall supply as a part of his work such structural reinforcements on the work as are necessary to make it fully operative and substantial and satisfactory to the Architects in every particular.

The service type trim shall be used throughout on the 4th floor, in the roof house on the 26th floor, in the fan rooms in the 25th story, in pipe spaces and slop sink closets; elsewhere the large molded trim indicated on the detail must be used. Where marble architraves are specified hereinafter, the trim will be omited.

Doors.

165. The type of door required shall be what is known as hollow construction steel doors and shall in every respect be at least equal to the best products in hollow steel door construction. All face connections shall be strongly welded; all other connections shall be either welded or secured by other means satisfactory to the Architects. Where glass panels occur they shall be detachably secured in place by continuous steel strips strongly screwed into place and covered and concealed by the finished panel molding, which shall be attached by clips or other concealed methods satisfactory to the Architects. There shall be no visible screws on any exposed face parts of the work. Panels, rails and stiles, or other face construction of doors, shall be made of 18 gauge, .050-inch steel. All panels shall be lined with a fireproof insulation between the plates of construction and material satisfactory to the Architects. The stiles and rails shall be properly reinforced and fitted for the reception of the hardware, and shall contain in their hollow spaces a sound-deadening material satisfactory to the Architects. All doors leading into pipe shafts or other wells that are open for more than one story in height shall be completely fire insulated as the Architect may direct.

All water closet doors, retiring room doors and small pipe shaft doors and also doors to furred spaces shall be 1 inch thick. All other doors (except doors for service boxes, inter-communication boxes, panelboards and other devices specified under Electric Work, which shall be as detailed) shall be not less than 1 9-16 inches thick. Where required for exhaust ventilation the bottom of the doors shall be left ¾ inch above the saddle or the floor.

Before starting the work the Contractor shall make, finish and erect a complete sample of his hollow metal construction, and of his door work, with hardware and trim complete, for submission to the Architects for their approval before proceeding with the work.

Sash.

166. All operating sash work shall be constructed on the pivoted louvre principle, with operating hardware and construction, all as shown on the drawings. The louvre frames shall be made of 16 gauge, .065-inch steel. The Contractor shall, before beginning the work, submit, at his expense, such full-size models and samples of the louvre sash work as the Architects may require, and shall not proceed with such work until the samples have received the full and entire approval of the Architects.

All hollow steel transom sash over doors shall be "fixed" as shown on drawings. All transom sash over double doors and all transom sash on the 5th floor shall be provided with intermediate muntin bars as shown on detail drawings. The sash in partitions shall be of alternate fixed sash and pivoted louvre construction, but in all instances partition sash next to doors shall be of pivoted louvre construction.

On the 5th floor all partition sash shall be fitted with horizontal muntin bars, below which all sash shall be fixed and above which the sash shall be alternately fixed sash and

pivoted louvre construction; the pivoted louvre construction shall be next to doors in all instances.

Gauges of Steel.

167. All doors, windows and trim shall be of such gauges of metal as are necessary to produce substantial work. In general, 18-gauge, .050-inch steel shall be used on all the work except that 20-gauge, .035-inch may be used on small panel molding where approved by the Architects. In all instances the gauges of metal used shall be subject to the Architects' approval.

Glazing.

168. All glazing of hollow metal work shall be done by the Contractor. All glass panels in doors and all ceiling sash under skylights shall be glazed with satin-ground American plate glass ¼ inch thick. All partition sash and transom sash shall be glazed with selected 32 oz. sheet crystal glass or the Imperial Pressed Prism glass. All glass shall be free from waves, blisters, bubbles or other defects and shall be bedded and back-puttied in a first quality lead putty of desired color, all in a workmanlike manner and satisfactory to the Architects in every respect.

Baked Enamel Finish.

169. All steel and iron used in the construction of the proposed work shall, unless otherwise specified, receive a baked enamel finish in full compliance with the following requirements:

Materials.

The chemical composition of all baked enamels shall be such that they will have no corrosive action on the steel. The various coatings will in this specification, be referred to in the following terms, and shall consist of materials as described:

Primer.

Priming coats shall consist of an elastic mixing copal varnish to which shall be added only pure colors, of desired shade, ground in best quality pure linseed oil and pure turpentine and naphtha, in the proper proportions to produce an enamel of good working and covering properties which, when baked hard, shall stand rigid hammer tests without flaking. A sample of clean, dead soft 26-gauge steel, when dipped and baked in this coating, shall stand bending to 180 degrees and hammering down flat without flaking or cracking of the finish.

Filler.

The material used for filler coats shall be what is known as knifing putty, and shall consist of an approved plastic composition, applied to the work by the knifing process, and when baked hard over the priming coat shall not crack or flake and shall stand rigid hammer and banding tests without failure.

Ground Color.

The ground color coat shall be mixed from pure colors, of desired shade, finely ground in the best quality pure linseed oil and mixed in best grade of mixing copal varnish of a brand approved by the Architects and reduced only in pure turpentine to form a mixed enamel that shall bake to a hard surface with an egg-shell gloss.

Graining Color.

Graining colors shall be mixed from pure colors ground in pure linseed oil as above, and best quality pure linseed oil and pure turpentine in the proper proportions to bake flat and to provide a hard and durable baked enamel coating on the work.

Finishing Varnish.

All finishing varnish shall be what is technically known as Baking Copal Varnish. This material, when baked hard over the preliminary coats, shall stand rigid bending and hammer tests without flaking or cracking.

Finishing Color.

Plain, solid colors, when specified for the final finishing coats, shall consist of pure colors of desired shade, ground extra fine in linseed oil of quality specified above, and mixed in a first quality elastic mixing copal varnish with the addition of pure linseed oil if necessary, and of pure turpentine to produce a first quality brushing enamel, which, when baked to a hard surface, shall be impervious to water tests and shall stand rigid bending and hammer tests without failure.

Enameled Finish of Steel.

170. The preparation of steel for the reception of enameled finish shall begin at the rolling mill by the manufacture of steel in grade and finish as hereinbefore described. Further preparation of the work for finish shall be carried along during its fabrication as described under Workmanship and Construction in this specification, including the application of an approved finish to protect the concealed inner surfaces of joints from rust as described.

After the unfinished or semi-finished work is satisfactory to the Architects it shall receive the final baked enamel finish as follows:

All portions of the work, inside and out, shall be thoroughly washed in naphtha until free from oil and dirt, and all accessible portions shall be sanded with fine sandpaper until free from all evidences of rust, then washed clean in naphtha until free from sand, lint, dust or other adherences, to a very clean surface and immediately thereafter treated to the first coat in the enameling process, described as follows:

Enameling Process.

In the following description of baked enamel finish for the proposed work the material required for the several coats will be referred to as Primer, Filler, Ground Color, Graining Color, etc., each of which shall be as described above under Material.

Specification for Grained Finish.

171. After the work has been prepared and cleaned as described, it shall immediately be given a coat of primer, thoroughly applied to all accessible portions of the work inside and out, and baked to a proper degree of hardness. All exposed surfaces shall next receive a coat of filler of approved shade, which shall be baked hard and then scoured and sanded down to a satisfactory surface. Two coats of ground color of approved shade shall then be applied, each baked hard, and the last coat sanded smooth with fine sandpaper, and dusted clean. One coat of graining color of approved shade shall next be applied, grained entirely by hand processes to a perfect match of figured Honduras mahogany, baked hard, carefully mossed down with curly hair, and coated in two brush coats of finishing varnish, each baked, and the final coat rubbed to a smooth egg-shell gloss with pulverized pumice stone and oil.

Stippled Finish.

The specification for Stippled Finish is the same as for Grained Finish, except that the graining color shall be stippled by hand processes to match approved samples.

Solid Color Finish.

172. Solid color finish shall be the same as described for grained finish, except that the graining color and finishing varnish shall be omitted, and in place thereof there shall be over the ground color two coats of finishing color, each baked hard, the final coat rubbed to a smooth egg-shell gloss with pulverized pumice stone and oil.

Workmanship on Finish.

173. All baked enamel finish shall be applied in a clean, neat and workmanlike manner. All colors and finishing varnishes shall be kept clean and free from injurious specks and dirt, and shall be applied in a smooth and workmanlike manner. Special care shall be exercised in all the various operations, and all the coats shall be baked for such durations of time and at such temperatures as shall produce a finish possessing the best combined properties of hardness and elasticity.

The completed finish in each kind shall be of uniform character throughout, and all enameled finish unsatisfactory to the Architects in any respect shall be removed and refinished at the expense of the Contractor, as the Architects may direct.

Guarantee.

174. The Contractor shall guarantee all hollow metal construction for a period of two years from the acceptance of the building against defects of any kind due to defective material, workmanship or finish. Should any defects appear in that time he shall, when notified, and at his own cost, make all necessary repairs and also repair any adjacent work damaged by reason of such repairs.

Grounds.

175. All wood grounds required for all hollow metal construction shall be provided and set by the Contractor. Also all grounds necessary to receive the plaster work around openings finished with hollow metal work shall be provided by the Contractor. All grounds to receive hollow metal work shall be bolted and tap screwed to the bucks and shall be set perfectly straight and plumb. Grounds for picture molding and base shall be nailed to hollow tile partitions. All grounds shall be of No. 1 white pine, dressed, and in size shall be as indicated on the details.

Where the work for which the grounds are required is in the Definite Contract, the grounds shall be included in same; elsewhere they shall be included in the contract units for hollow metal work.

Bucks.

176. All doors shall be provided with bucks of cold drawn steel made as per detail, anchored to the floor arch at top and bottom and to the partition blocking at the intervals indicated.

Where the hollow metal work is in the Definite Contract the bucks shall be included, elsewhere they shall be furnished as per the contract units.

Bucks shall be tapped for the connection of the head pieces, grounds, anchors and other work in connection with same and the angle connections provided for the head pieces. All connections shall be riveted, except field connections, which shall be made by ½-inch bolts.

In addition, as a part of the Definite Contract, bucks with head pieces complete to match those specified above and detailed, shall be provided for all isolated partition sash, pipe shaft doors or access openings, valve pockets and for interconnection boxes, panel boards and other devices provided under the Electrical Work.

Brace Members.

177. At approximately the intervals indicated on the detail, vertical I-beams must be provided and set as brace members in the partitions. They shall be anchored to the floor arch at top and bottom, be tapped for the connection of other work and the angle connections for the head pieces provided. All connections shall be riveted.

Brace members shall be included in the Definite Contract or contract units to conform to the specification for bucks.

Head Pieces.

178. Over the partition sash throughout there shall be head pieces of sizes indicated on the detail, framed to the bucks and brace members by riveted connections.

They shall be furnished under the Definite Contract or contract units in accordance with the requirements specified above.

Hardware.

All finishing hardware for partition sash is specified before. The finishing hardware for all other hollow-metal work is provided hereinafter and shall be set by the Contractor.

Work to be Done.

179. The Contractor shall furnish and set all hollow-metal work required to complete the contract with bucks, brace members, head pieces and grounds complete, and with all finished hardware properly set, all of which shall be in accordance with the foregoing requirements and the details and shall be included in the Definite Contract or contract units as noted hereinafter.

Doors, Frames and Trim.

180. The following work shall be included in the Definite Contract:

Trim for one side of the elevator openings on the 4th floor.

Doors, frames and trim on both sides for all openings in the 4th floor, except the elevator openings.

The doors, frames, etc., to the two (2) fresh-air chambers in the 4th floor are furnished under the second contract (see paragraph 26), the trim for the stair side of stairwell doors and the room side of toilet-room doors in the 4th floor is of marble and provided herein elsewhere, and the doors in the wire-mesh partition enclosing the switchboard in the 4th floor are provided under Miscellaneous and Ornamental Metal Work. All other 4th floor work is in the Definite Contract as specified above.

All doors, frames and trim for openings in the spaces enclosed by the dotted lines on the various plans above the 1st floor. The trim on the outside of the partitions enclosing such spaces shall be provided under the contract units.

In stairwells, toilet rooms, corridors or elevator halls the trim shall be of marble as specified hereinafter. In slop sink closets it shall be of hollow metal.

Where the doors are marked "T" on the various plans they shall be provided with transom bar and glazed sash over same. As the heights of the stories vary, the height of the transom sash will be determined by the sections, as the doors are of a uniform height.

Where the doors are marked "G" on the various plans they shall be provided with glazed panels.

The Definite Contract shall include also the following:

Doors, frames and trim to the two (2) fan rooms in the 25th story.

Doors, frames and trim complete for the opening to the tower elevator pit.

Doors, frames and trim complete for the openings on the two (2) central stairs in the 24th story to the pipe spaces.

Doors, frames and trim complete for all openings to pipe spaces within the dotted lines on the various plans or to pipe spaces on the exterior walls.

Where the pipe space door leads from a sink closet or other space the door shall match the other doors on the floor.

A trim, frame and fixed door about 2 feet 6 inches by 11 feet for the pull box installed in the second contract (see paragraph 26), in Room 221-N. This door shall be secured by screws.

Frames, trim and doors on each story for access to the wire shafts within the dotted lines on the various plans. The doors and frames shall be in two parts in order to give access to the entire shaft.

Doors, frames and trim for any pockets required for valves in Plumbing Work within the spaces enclosed by dotted lines on the various plans.

Doors, frames and trim for all pull boxes, cut-out cabinets, interconnection boxes, service boxes, panel boards and telephone and telegraph rising shafts specified under Electric Work.

Doors, frames and trim for all openings to the dumbwaiter shafts and to the openings at the foot of the private mail chutes in the 17th, 18th and 19th floors. The above doors shall slide up in steel pockets, be properly guided in same and be hung by the best quality of bronze chain over bronze faced roller bearing heavy cast pulleys and be properly balanced by lead or iron weights. The frames shall be box frames and the pulleys and weights made accessible by covers. The box in the shaft shall be entirely covered with steel. The sills shall be of size indicated on the detail, be made with an apron and properly reinforced.

Doors, frames and trim for all openings for access to piping over furred ceilings or spaces within the spaces enclosed on the various plans by dotted lines.

Trim for the windows in the elevator shafts and for all openings in exterior walls above the 1st story up to and including the 25th story and the roof houses in the 26th story, the trim to be as per the detail. Mullions not engaged by partitions shall be paneled, but the Architects reserve the right, in the event of the rearrangement of partitions, to provide more paneled mullions without extra cost.

All doors, frames and trim other than that noted above shall be provided under the contract units, but the requirements specified above shall hold good in all cases. The contract units shall include wickets under partition sash, the wickets provided with jambs, trim and sills reinforced and punched to receive grilles and shelves which will be provided in a later contract. The openings shall be 3 feet high and the width of the partition sash above.

Water Closet Doors.

181. All water closet compartment doors in the 4th floor and throughout the building above the 1st floor in the spaces enclosed on the various plans by dotted lines shall be furnished and set to conform to the foregoing requirements as a part of the Definite Contract. All other water closet compartment doors required shall be furnished under the contract units.

The doors to retiring rooms adjoining toilets, furnished under the contract units, shall match the water closet compartment doors.

Partition Frames, Sash and Trim.

182. All partition frames and glazed sash with trim occurring on the various plans within the spaces enclosed by the dotted lines shall be furnished as part of the Definite Contract. The trim shall be provided for both sides, including those occurring in partitions which bind such contract spaces.

Isolated sash shall be provided with trim on both sides and shall be the pivoted type detailed; elsewhere the pivoted and stationary sash shall alternate as specified before.

All other partition sash, frames and trim shall be furnished under the contract units.

Base.

183. All spaces enclosed by the dotted lines on the various plans above the 1st story up to and including the 25th story and the elevator despatcher's rooms in the roof houses, and Chambers street walls and exterior above the 1st story up to and including the 25th story shall be provided with a steel base with grounds and clips complete as per the detail and under the Definite Contract.

In the toilet rooms, passages leading to same, slop sink closets, pipe spaces, stairwells and elevator halls the steel base will not be required, and the unit side of

partitions bounding the Definite Contract spaces shall be provided with base under the contract units.

The boiler flue walls shall be considered a part of the exterior walls.

Where recesses occur under windows, the base shall be carried throughout in same.

The base shall be carried down in the wells of all interconnecting stairs in or between departments as a part of the Definite Contract and throughout enclosed wells at the bottom or top of such stairs. Where the stairs are open the base in the Definite Contract shall end at the points at top and bottom indicated on the detail.

All other steel base required shall be provided under the contract units.

Ceiling Sash and Frames.

184. All skylight shafts above the 25th floor ceiling, including the large light shafts at the north and south ends of the story, and the shafts under the skylights in the stairwells in the roof houses shall be provided under the Definite Contract with frames, glazed sash and trim as per the detail.

Picture Molding.

185. All exterior walls (including the walls of the boiler flue) above the 1st story up to and including the 25th story, excepting the exterior walls in elevator shafts, but including the Chambers street walls, shall be provided with a picture molding of hollow metal as per the detail, under the Definite Contract. It shall return on the jambs of openings to the trim.

All picture molding required other than the above shall be provided under the contract units.

Steel Cornices.

186. Cornices required in corridors above the 1st floor shall be provided under the contract units and be made as per the detail.

The elevator halls shall have plaster cornices as specified hereinbefore.

Steel cornices shall be framed and anchored to the bucks and partition braces and a loose plate seat provided in same for the wires. The upper portion of the cornices shall be hinged at the conduit inlets in 24-inch wide sections and the sections provided with brass-rabbeted catches. Between partition sash a bed mold must be provided for the cornice.

Finish.

187. All hollow steel in the 4th floor, roof house in the 26th floor and fan rooms in the 25th floor shall be finished in a solid color.

All partition sash, frames and trim, toilet room finish and slop sink closet finish shall have a stippled finish.

188. All picture molding, steel cornice, ceiling sash frames and trim and access doors in ceilings shall have a stippled finish.

All other hollow-metal work shall have a grained finish. The doors and trim of panel boards, interconnection boxes, service boxes, valve pockets, etc., shall be finished to match the adjoining finish.

INTERIOR MARBLE, GLASS, SLATE AND MOSAIC WORK.

Quality.

189. All marble shall be of the best quality of well-seasoned selected stock of the various kinds specified, of even texture, free from soft spots, streaks or other imperfections.

All marble and granite in the 1st story and main stairs to the 2d story shall be of the kinds specified hereinafter.

All marble for use in the main corridors and elevator halls above the 1st story shall be a white marble of quality to be approved. It shall be a close-grained dense marble with as little figure as possible, and the body shall be white, not darker than a cream color. A marble having a bluish cast will not be accepted.

The Contractor shall refer to the samples of marble in the office of the Bridge Department. They give the range of color which will be acceptable. Nothing darker than the darkest sample will be accepted, nor any marble having a bluish cast, such as Sample A.

All marble for use in the stair halls above the 1st story and in the stair and elevator halls in the tower shall be C. F. Italian or an equally good. All marble for use in toilets and lavatories and the passages or vestibules leading to same, and also in retiring rooms adjoining toilets, shall be Blanco P. or Veined Statuary. All marble in connection with isolated lavatories, for use in slop-sink closets and for the base throughout offices shall be Pink Tennessee marble.

All slate specified shall be the best quality of black slate, free from ribbons, soft spots and other imperfections.

All glass shall be the best quality of white structural glass, free from all defects, and not less than one inch thick.

Samples.

190. The Contractor shall submit samples of the marbles, slate and glass he proposes to use, finished as specified herein, for the Architect's approval before beginning work.

Dressing.

191. Except where hereinafter otherwise specified, all vertical work shall be dressed polished, and horizontal work, such as treads, floors and saddles, shall be hone finished. Pink Knoxville marble shall be dressed half polished. All slate shall be dressed rubbed.

Measurements.

192. The Contractor must take all measurements for his work at the building, as he will be held responsible for his work fitting in all its details with the work already in place. Also, he must provide all necessary templates, forms, etc., required in setting marble.

Cutting and Setting.

193. Centers for arches are specified under Carpentry Work.

The Contractor shall do all cutting and fitting required to accommodate all work, and for all hardware, and shall make good after all work is set. Perforations for register faces or screens shall be rabbeted. He shall also do all cutting and fitting necessary in setting his work, including that for anchors, dowels, etc.

The Contractor shall furnish setting plans showing the size, shape and jointing of all work, with each piece thereon numbered. The material must be properly boxed and marked according to the setting plans. The setting plans must be approved by the Architects before the work is cut, and the Contractor must furnish one copy of same for the Architects' office and one for use at the building, and one for the Commissioner.

Floors shall be set to grade where required. Floor tile shall be 1½ inches thick, except where specifically otherwise specified, and the floor tile shall be dressed on the backs and edges to a uniform thickness throughout. All floor tile shall be set with full beds of mortar and with fine joints; no slack beds will be allowed.

All vertical work must be carried not less than 1 inch below the floor levels.

Each piece of marble, slate or glass shall be anchored to the walls by brass or copper anchors at least two to each slab or stone and slabs shall be doweled together at top and bottom. Architraves, jambs and heads and plinth blocks must be doweled together and anchored to the walls to conform to the above. Where plinth blocks are specified or required, jamb pieces must be provided of material to match the plinths and of form shown on the detail.

Treads and platforms, except where hereinafter otherwise specified, shall be 1½ inches thick, nosed on edge and set perfectly level. Treads and platforms shall be in one piece, except where otherwise shown on the details. Edge pieces 12 inches wide must be provided for the tops of all flights of steps of thickness to match the stairwork.

All pilaster and column shafts shall be cut with a fillet and conje at top and bottom. The sections and caps and bases shall be doweled together, and the sections anchored to the backing with at least two (2) anchors to each piece.

Wainscots must be carried in on the jambs of windows to the frames and 1½-inch-thick sills nosed on edge provided for the windows, except where specified or shown to be thicker.

Slab wainscots shall be formed of slabs of widths as detailed, but in general they shall be not less than 4 feet wide.

The joints at exterior angles or corners in wainscot work shall show not less than 4 inches from the corner.

The base of all wainscot on stairs and base only on stairs shall be coped down over the steps.

Where radiators are encased in marble the marble must be arranged to be readily removable for access to the radiators. The Contractor shall furnish and set any necessary steel to accomplish this.

Setting Materials.

194. The Contractor shall furnish all setting materials required in setting his work, such as common brick, cement, lime, sand, etc.

All vertical work shall be set in the non-staining cement mortar specified before and all floor tile shall be thoroughly bedded in gauged mortar.

The Contractor shall furnish any stone concrete required for building up work to receive marble.

Anchors, Dowels, etc.

195. All anchors, dowels, cramps and other metal required to complete the work must be furnished and set by the Contractor. All metal work must be of brass, nickel-plated where exposed. Cramps shall be run in with lead.

The metal work shall be in extent as specified herein, although the Architects reserve the right to order more if in their opinion it is necessary.

Models.

196. The models for all carving of marble work are specified to be provided for hereinbefore.

Carving.

197. All carving of marble work shown on the drawings and details or mentioned hereinafter shall be done in the most artistic manner by master carvers of at least five (5) years' experience and who shall be acceptable to the Architects.

Protection.

198. The Contractor shall provide all board protection required by the Architects in connection with the work, and he must replace any work damaged during the progress of the building, leaving the work in perfect condition.

Cleaning and Pointing.

199. After all work is set all joints shall be brushed out and pointed up in the best manner. After pointing all work, including floors, shall be thoroughly cleaned down, using soapsuds and water—acid shall not be used. All surface discolorations which do not yield to the above treatment must be removed by use of pumice stone.

Work to be Done.

200. The Contractor shall furnish and set all marble, slate and glass work shown on the drawings and details, or described hereinafter, cut and set in accordance with the foregoing requirements.

The work shall be included in the Definite Contract or be furnished under the contract units as is noted hereinafter.

Entrance Halls.

201. The north and south entrance and elevator halls and the main stairs and stairwell to the 2d story shall be finishel under the Definite Contract.

All vertical surfaces up to and including the molded cornice over the pilasters shall be finished in Light Botticino marble dressed rubbed to a half polish. Above the cornice the circular panels in the lunettes shall be of yellow and gray Sienna marble dressed to match the Botticino; the panels shall be 1½ inches thick.

The work below the cornice shall include all pilasters with molded caps and bases, the adjoining imposts with cap and base molding, the arches over the elevator entrances with carved keystones, all high pilasters carrying the entablature with molded caps and bases—the entabulature consisting of molded architrave, frieze and molded and carved cornice—all arches other than those over the elevator fronts, the molded bases and paneled imposts course in the vestibules, all ashlar which shall be 2 inches thick, the molded frames inclosing the directories and registers on both walls in each of the westerly vestibules, and the ceilings of the vestibules to concourse, Chambers street and at the west entrance, the ceilings to be vaulted and of a minimum thickness of 2 inches. The work shall return on the jambs of openings to the frames.

The ashlar shall be carried up the walls of the stairwells to the 2d floor, finishing at the floor level with a molded course. The ashlar above the second landing to be 1½ inches thick. Below the ashlar on the stairwell walls there shall be a slab wainscot with a molded base coped over the stairs and a plain cap; the cap member on the lower flights shall be molded. The arches and vaulted ceilings over the first two runs shall be of marble to match the balance of the work; the ceiling shall be a minimum thickness of 2 inches. The niches on the first platform above the 1st floor shall be as per detail. The work shall include the finish of the jib walls under the first two runs of the stairs, the paneled and carved newel posts, molded strings, turned balusters and molded hand rail; the molded hand rail shall be caried up to the second platform. The stairwell work shall be carried into the frame on the jambs to the openings and molded sills provided for the windows.

The marble tops over the radiators at either side of the easterly vestibules shall be of Botticino marble to match the hall work.

The floors of the two entrance and two elevator halls and of all vestibules shall be finished with light and dark Pink Knoxville marble arranged in patterns as per the detail, with panels of Oriental and Verde Antique Vermont marble. The floor work shall be carried in and throughout all vestibules at all entrances. The central panels in the halls shall be of granite and the Contractor shall base his estimate on using Cape Ann, Ascutney Green, Jersey Pink and Stony Creek granites, which shall be placed as desired by the Architects. In the centre of the granite panels shall be set the ornamental inlays of cast brass specified before. The floor tile shall be 1½ inches thick, except where over 16 square feet area where it shall be 2 inches thick.

The stairwell windows in the 2d story shall be provided with 2-inch thick nosed sills and aprons of the marble specified for the corridors under the Definite Contract.

The stair treads and platforms from the 1st to 2d stories shall be of Pink Knoxville marble 2 inches thick with an edge piece at the 2d story level of Light Botticino marble. The risers shall be 1½ inches thick paneled and of marble to match the treads.

The above floor work shall be rubbed to give slightly more polish than is obtained by hone finishing.

All isolated columns in the 2nd story main stair halls shall be cased with the marble specified for the upper corridors, 3 inches thick, of form indicated on the plans, and provided with molded caps and bases, all under the Definite Contract.

The pilasters on the north and south walls of the 2nd story halls at the stairwells shall be of the above specified corridor marble, including the molded cap and base, and shall be provided under the Definite Contract.

Upper Elevator Halls.

202. The elevator halls above the 1st floor up to and including the 25th floor shall be finished in the marble specified hereinbefore for corridors as per the details and as a part of the Definite Contract. The finish shall include jambs and soffits for the elevator openings (the jambs and soffits to be paneled), all pilasters on the north and south sides of the halls (those at the entrance to the corridors to be furnished on the corridor sides also) and a slab wainscot with base and cap carried all around. At the windows the wainscot shall be carried in on the jambs to the frames and 2-inch thick sills provided for the windows. The recesses under the windows shall also be wainscoted. Where the elevator halls are enclosed by partitions the partitions must be wainscoted and architraves with plinth blocks provided for the doors to match in form those shown for the corridor openings.

The halls of the tower elevator above the 25th floor shall be provided with a marble base of C. F. Italian marble under the Definite Contract to match the base indicated for the tower stairs with architraves, with plinth blocks for all doors to match in form those detailed for corridors.

Stair Halls and Stairs.

203. The treads and risers in the north and south halls in the 2nd story leading the the alcove to the upper stairs shall be provided as a part of the Definite Contract. They shall be of the corridor marble, the risers ⅞ inch thick curved as shown and the treads of 2-inch stock nosed on edge and with a 12-inch wide edge piece at the top.

The stair halls and wells of the four (4) sets of stairs from the 2nd to the 24th floors and the northerly and southerly sets from the 24th floor to the roof house shall be provided with a base, and treads and platforms provided for the stairs, all of C. F. Italian marble and under the Definite Contract. The base shall be carried around on all walls of the halls and shall follow the rake of the stairs in the wells. For all doors the Contractor shall provide architraves with plinth blocks to match those in form indicated for the corridor openings. The stairs shall be provided with 1½-inch thick treads and platforms and with a 12-inch edge piece in each story. Where the stairs start or end on the well side of the edge piece, the intervening spaces shall be paved in marble to match the stairs.

The tower stairs from the 24th to the 36th floor and the adjoining elevator halls shall be provided under the Definite Contract with a base and treads and platforms of C. F. Italian marble. The base shall be as detailed, be coped down over the steps, be carried on both sides of the well and shall properly connect with the base for the elevator halls specified before.

All doors in connection with the tower stairs and elevator halls shall have architraves with plinth blocks of C. F. Italian marble to match those shown for the corridor openings. The stairs shall have treads and platforms with edge pieces of C. F. Italian marble to match those specified for the stairs in the main building.

All inter-connecting stairs between departments shall be provided with treads, platforms and edge pieces of C. F. Italian marble to conform to the above as a part of the Definite Contract, and with a base of C. F. Italian marble coped down over the steps and of height indicated. In the Definite Contract the base shall end at the top and bottom of the stairs at the points indicated on the detail. Where the stairs are entirely enclosed the wells at the bottom or top of same must be provided with a base and with plinth blocks for the doors.

Corridors.

204. All main corridors shall be wainscoted in a marble of quality specified hereinbefore to the height indicated on the detail, with a molded cap and base and with architraves with plinth blocks for all doors. The above work shall be done as per the contract units.

As a part of the Definite Contract the exterior wall in the public space between rooms 2009-C and 2010-C shall be wainscoted in the corridor marble in height to match the corridor work, the wainscot shall be carried in to the frame on the jambs of openings and throughout the recesses under same and 2-inch thick sills provided for the windows.

Toilet Rooms.

205. The toilet rooms in the 4th floor shall be wainscoted in black slate to the height of 7 feet with a 10-inch high base as a part of the Definite Contract with 6-inch wide architraves with plinth blocks provided for the doors. The wainscot shall be carried in to the frames on the jambs of windows, throughout the recesses under the same and 2-inch nosed sills provided for the windows.

All openings to pipe spaces in the rooms shall have architraves of slate to conform to the above.

The urinals shall have 1-inch risers and 1½-inch nosed edge pieces of slate for the platforms as per the detail.

The partitions separating the toilets from the locker rooms shall be of slate to conform to the details of water closet partitions, with stiles of thicknesses to match the fronts of the water closet partitions for the doors.

All toilet rooms above the 1st story up to and including the 25th story occurring within the spaces enclosed by the dotted lines on the various plans, except the 4th floor, shall be finished in Blanco-P or veined statuary marble as a part of the Definite Contract. The above shall include the vestibules or passages in the various floors leading to the toilets. The finish shall include a base exposed 10 inches above the floor with architraves with plinth blocks for all doors. The back wall of the recesses under the windows shall be wainscoted up to the sill and 1½-inch nosed sills provided for the windows. The doors to pipe spaces and partition sash occurring in the rooms shall have marble architraves to match those for the doors. As specified hereinafter the fronts and cap members of the water closet partitions shall be of marble to match that used in the rooms.

All urinals in the toilets shall have 1-inch risers and 1½-inch edge pieces of marble to match that in the rooms for the platform of width indicated on the detail, the edge pieces shall be slightly nosed.

The exterior walls of toilet rooms which are not included in the spaces enclosed by the dotted lines on the various plans, and the exterior walls of retiring rooms in connection with same must be treated as specified above for the toilets and as a part of the Definite Contract. This shall include a marble base, wainscot under windows and window sills.

The water closet compartments in the 2nd floor outside the contract spaces are stepped up and a ⅞-inch riser and 6-inch edge piece 1½ inches thick of Blanco-P or veined statuary marble must be provided as a part of the Definite Contract. All toilets other than those specified above shall be finished as per the contract units.

Lavatories.

206. All isolated lavatories in offices shall be backed with Pink Knoxville marble as per the detail, dressed half-polished, and under the contract units. The marble slabs shall be carried up to the partition sash, be perforated for brackets, piping, etc., and be provided with returns to the walls at the ends and a 1⅜-inch square edged cap. Where two or more basins occur in offices, floor slabs of Pink Knoxville marble of sizes indicated and 1½ inches thick must be provided and set under the contract units.

Slop Sink Closets.

207. All slop sink closets within the spaces on the various plans enclosed by the dotted lines shall be wainscoted in Pink Knoxville marble as a part of the Definite Contract. The marble shall be carried to the height of 4 feet, the tops rounded and plinth blocks must be provided under the steel door trims. All other slop sinks shall be wainscoted as described above, but the work shall be done under the contract units.

Window Sills.

208. As a part of the Definite Contract all exterior windows occurring in the elevator shafts shall be provided with 1½-inch thick nosed sills of C. F. Italian marble. In the 5th floor this sill shall be carried out to cover the duct space below.

As a part of the Definite Contract all windows having splayed jambs in the 2d and 3d floors shall be provided with nosed sills of required form to conform to those specified for the elevator shafts.

As a part of the Definite Contract for the east and west radiators in the 21st floor in rooms Nos. 2103-C, 2111-C, 2112-C, 2113-C and 2114-C, there shall be set 1½-inch thick nosed platforms and ⅞-inch risers of C. F. Italian marble.

Watercloset Partitions.

209. All water closet compartment partitions occurring in toilets within the spaces enclosed by the dotted lines on the various plans, and on the 4th floor, shall be provided as a part of the Definite Contract and as per the detail. In the 4th story they shall be of slate, elsewhere of glass and Blanco-P or Veined Statuary marble. The fronts shall be 2½ inches thick of slate in the 4th story and of marble elsewhere. The partitions shall be 1 inch thick of slate in the 4th story and of glass elsewhere. The fronts shall be grooved to receive the partitions and the whole capped by a 3-inch high grooved cap of necessary width, the cap shall be of slate in the 4th story and of marble elsewhere. The fronts shall be carried 1 inch below the floor. The intermediate partitions shall be stopped 10 inches above the floor and the end divisions shall be carried 1 inch below the floor. The partitions shall be bolted, doweled and clamped together, and the caps to the partitions, and the whole made rigid. The Contractor shall submit for approval a drawing showing the metal work that he proposes to use in the above work.

The water closet compartments in the 4th story shall be lined with slate and elsewhere with glass, all to the height of the partitions. The linings in the large easterly compartments of the main toilets shall be 3 feet wide on the back walls and the windows in the compartments shall be provided with marble panel-backs as specified before.

All water closet partitions required for toilets outside the spaces enclosed by the dotted lines shall conform to the above but shall be provided under the contract units, but the lining of such compartments when on exterior walls shall be in the Definite Contract.

Urinals.

210. The marble work in connection with urinals is specified under Toilets. In addition, the wall spaces between the urinals shall be wainscoted to the top of the urinals with glass 1 inch thick and carried at least 1 inch in back of the fixture. It shall be provided as part of the Definite Contract when occurring within the spaces enclosed by the dotted lines on the plans, elsewhere it shall be provided under the contract units.

Floor Slabs.

211. All water closets shall have a pedestal form concealed slab of Blanco-P or Veined Statuary marble, and a 20-inch by 24-inch slab for all slop sinks of C. F. Italian marble. The slabs shall be 1¾ inches thick. The slabs shall be furnished under the Definite Contract when occurring in the spaces enclosed on the plans by dotted lines, elsewhere they shall be provided under contract units.

Bases and Plinths.

212. As a part of the Definite Contract the Contractor shall furnish and set 1-inch by 7-inch plain slate bases for all spaces floored in rock asphalt occurring within the dotted lines on the various plans, providing plinth blocks to match for the doors. All other slate bases and plinths for spaces floored in rock asphalt shall be provided under the contract units.

As a part of the Definite Contract all corridors, elevator halls, closets, storage rooms and locker rooms in the 4th floor, the two (2) fan rooms in the 25th floor and the two (2) fan rooms in the 26th floor shall be provided with a 7-inch high base of slate, with plinth blocks for all doors.

As a part of the Definite Contract there shall be a ⅞-inch by 5-inch base of Pink Knoxville marble in the spaces under the main stairs in the 1st floor (except the closets in the telephone rooms) with plinth blocks to match of size to receive the door trim.

All exterior walls above the 1st floor up to and including the 25th floor, except in toilets and pipe spaces, but including the walls of the boiler flue, the exterior Chambers street walls and for any spaces within the areas on the various plans enclosed by the dotted lines which are not provided with a base herein elsewhere, the Contractor shall provide under the Definite Contract a base of Pink Knoxville marble of form indicated on the detail with plinth blocks and jamb pieces for all doors.

All base required other than the above shall be provided under the contract units.

Saddles.

213. All doors leading from spaces floored in tile or mosaic shall be provided with saddles of C. F. Italian marble. All doors leading from spaces floored in marble shall be provided with saddles of marble to match that of the floor. All doors leading from spaces floored in rock asphalt or cement shall be provided with molded saddles of slate, except where the door leads to a space floored in marble, tile or mosaic where the saddle must be of C. F. Italian marble.

All saddles shall be 2 inches thick and shall be molded, except for the inner vestibule doors in the 1st story entrance halls where they shall be flush.

The following saddles shall be provided under the Definite Contract:

All saddles required in the 1st and 4th stories.

All saddles required for openings occurring within the spaces enclosed on the various plans by the dotted lines, including the fan rooms in the 25th floor.

All other saddles required shall be furnished under the contract units, except that for inter-connecting doors between offices saddles will not be required.

Mosaic.

214. All mosaic shall be a white marble mosaic, ¾-inch square pieces not less than 7-16 inch thick, laid in Portland cement mortar mixed one to two, well bedded, thoroughly rubbed down and cleaned and left in perfect condition at completion. The body in each case shall be Blanc de Nimes marble. In the corridors and elevator halls borders must be provided of an American green marble to be selected later, the borders shall be of widths indicated on the drawings.

Work to Be Done.

215. The following mosaic work shall be included under the Definite Contract.

All elevator halls above the 1st story out to the border of the corridor mosaic. In front of the elevators and in the corridor openings marble panels must be provided of the corridor marble 2 inches thick. The borders shall be carried around as indicated on the drawings. In the elevator halls in the tower the borders will be omitted.

The floors at all levels in the four (4) sets of stairs from the 2nd to the 24th floor and the northerly and southerly stairs from the 24th to the roof house, the work to be without borders.

All toilet rooms and the vestibules or passages leading to same above the 1st floor when occurring within the spaces enclosed on the various plans by dotted lines. The toilet rooms of the 4th floor, however, are provided with tile floors elsewhere.

All floors at the various levels in the tower stairs from the 24th to the 36th floor to conform to the above.

The landings at the top and bottom of the inter-connecting stairs between departments when enclosed by partitions.

All mosaic required other than the above shall be provided under the contract units.

Tiling.

General Requirements.

216. All floor tile shall be the best quality of ¾-inch hexagonal white vitrified ceramic tile. They shall be laid in Portland cement mortar, well bedded and with full joints. The floors shall be thoroughly cleaned at completion. The concrete filling is specified before to be leveled approximately 1 inch below the finished surface. All material and labor shall be provided by the Contractor.

Work to Be Done.

217. The following tile work shall be furnished and set as a part of the definite contract:

The floors of the two (2) toilet rooms in the 4th story and the platform of the urinals.

The floors of all slop sink closets occurring within the spaces enclosed by dotted lines on the various plans.

The platforms in front of all urinals occurring in the spaces enclosed by dotted lines on the plans.

All other tiling shall be done under the contract units.

Cork Tiling.

General Requirements.

218. All cork tile shall be absolutely and exactly uniform in size and thickness and shall be either 9 inch by 9 inch or 9 inch by 18 inches by ½ inch thick.

All cork tile shall be made of the finest quality clear cork shavings and granulated cork mixed in the proportion by weight of 60 per cent. shavings and 40 per cent. of granulated cork. The cork shall be compressed solid in closed molds and thoroughly baked. The cork in the tile shall be free from all impurities, foreign substances and cement of any kind other than the natural gum of the cork. The color of the finished tile will be selected by the Architects, subject to the approval of the Commissioner.

All cork tile shall be set in elastic waterproof cement manufactured especially for cork tiling, and so applied as to seal hermetically and bind all the joints. The tile shall be completely coated on the four sides and bottom with the cement before laying.

All tile shall be laid under a lateral pressure sufficient to force the tile together and compress them to the extent of 1-32 inch to the foot.

Each tile shall be nailed to the cement underbody with not less than nine (9) No. 18 headless wire brads not less than ⅞-inch in length.

The tile shall be neatly cut to fit all angles and floor borders. All cut edges of cork tile shall be planed and sandpapered.

After the tile floors are laid the upper surface shall be carefully sandpapered to a uniform surface true to level and line throughout.

All spaces floored in cork shall be provided with a ¾-inch sanitary cove of cork, and the Contractor shall furnish and set a ¾-inch scribing strip above the base to meet the marble base specified hereinbefore.

The cinder concrete fill is provided hereinbefore to be floated level at the height of 1½ inches below the finished floors. The Contractor shall provide on the cinder concrete a top surface 1 inch thick, composed of 1 part Portland cement, 1 part fine cedar sawdust and 2½ parts of clean, sharp sand. This top layer shall be troweled smooth and true to finish ½-inch below the floor level.

The cement and sand shall be mixed thoroughly together dry, then sawdust added and the whole mixed dry, then the water added and the whole mixed again thoroughly. Very little water shall be used. Sawdust concrete shall be laid upon the concrete fill, while the latter is still wet and green. If this is not possible, however, the concrete fill shall be prepared as follows: The fill shall be thoroughly soaked with water, then sprinkled with dry cement and swept with a brush or broom, thus forming a thin grout distributed evenly over the entire surface of the fill.

The sawdust shall be very fine, not powder, and be freed from chips and shavings by screening. A fibre sawdust gives the best result, as it strengthens the bond.

Sawdust concrete shall be installed about ten days before the cork tiling is laid. If laid sooner than this it will set up too hard to nail to, and if later, it will not have sufficient time to dry.

Work To Be Done.

219. Under the Definite Contract the Contractor shall furnish and set a cove base and scribing piece on all exterior walls in rooms Nos. 208-S, 209-S, 210-S, 211-S, 212-S, 213-S, 215-S and 216-S in the 2nd floor, and on all exterior walls in the 5th story, except in the toilets and elevator halls.

All other cork base, scribing pieces and all cork tiling shall be provided under the contract units.

Carpentry.

Timber.

220. All timber for use in the building shall be of the best merchantable quality and thoroughly seasoned. It must be mill sawn, free from sapwood, shakes, rot, large or loose knots and any and all other defects, and every scantling must be of the sections specified after sawing.

Watercloset Enclosures.

221. The Contractor shall furnish the material and build the enclosures for the temporary waterclosets and urinals. They shall be built of spruce under the

direction of the Architects, be of sufficient size to accommodate the number of fixtures specified under "Plumbing Work" and shall be located at three points in the building. These enclosures shall be maintained in good condition and shall be shifted as the progress of the work may demand.

Centers and Temporary Frames.

222. The Contractor shall furnish and set strong spruce centers for all arches in masonry and interior marble work. Those for fireproof floors and reinforced concrete work are specified under masonry. All centers shall be strong and well braced and shall not be removed until the arch has thoroughly set. Temporary frames or wood forms of any kind required in setting interior marble work shall be furnished by the Contractor.

Grounds.

223. All grounds for trim, base and picture molding are specified under Hollow Metal Work.

Work for Other Trades.

224. The Contractor shall furnish and set all rough and finished woodwork required by the various trades covered by this specification, such as meter boards, brackets, pipe boards, etc.

Sheathing.

225. The roofs of the easterly vestibules in the 1st story and the roofs of the duct spaces at each side of same shall be sheathed with ⅞-inch dressed best quality tongued and grooved spruce boards. They shall be laid blind nailed by wrought nails. All furring on the roofs necessary for drainage shall be done before sheathing.

Cutting.

226. The Contractor shall do all cutting and fitting of carpentry work required by all other work and make good after same.

Stair Rails.

227. All stair rails shall be molded rails of selected and seasoned mahogany, free from all defects. The wood selected must be a hardwood; no other will be accepted. The rails shall be made as per details. All rails shall be secured to the iron stair rails by screws through the top member of the iron rail.

228. The wood shall be chemically treated by the American Wood Fireproofing Company, The Electric Fireproofing Company, The Fireproofine Company or some other equally good process approved by the Architects, to render same fireproof. The company doing the fireproofing must furnish a satisfactory guarantee that their process will not discolor the wood so treated, and will permit the varnishing or finishing of said woodwork in the same manner as untreated wood

All ramps or casings required in the work shall be provided by the Contractor The rails must be provided in every case for the wells as well as for the stairs.

The four sets of stairs from the 2nd to the 24th floor and the northerly and southerly stair from the 24th to the 26th floor shall be provided with molded rails out of 4-inch-by-4-inch stock to conform to the foregoing requirements. The open wells of the two sets of main stairs in the 2nd story shall have rails to match the above and similar rails for both sides of the two runs down from the 2nd story as per the detail. All stairs connecting departments and the open wells of same shall have molded rails to conform to the above. Where the stairs are enclosed there shall be wall rails on both walls to match those specified below for the tower stairs.

The enclosed tower stairs from the 24th to the 36th floor shall be provided with a simple rail of size indicated on the detail on both walls. The rails shall be secured to bronze brackets. The bronze brackets for wall rails are specified under Ornamental and Miscellaneous Metal Work.

The circular stair in the tower from the 36th to the 39th floor shall have a simple molded rail out of 2½-inch by 3-inch stock.

Rough Hardware.

229. All rough hardware required, such as nails, screws, etc., must be provided by the Contractor.

HARDWARE.

Quality.

230. All hardware shall be of the best quality of material, workmanship and finish, of the best manufacture, and free from defects of all kinds. All hardware shall be of heavy, solid, cast bronze polished and unlacquered. In the first floor it shall have an oxidized finish as selected by the Architects.

The Contractor shall furnish all hardware for all doors, ceiling lights, etc., in rooms, halls, corridors, toilet rooms, etc., and all hardware required throughout the building, whether the same is specifically mentioned or not; also the necessary bronze screws, expansion and cap bolts to match the hardware. Machine screws shall be provided for connecting hardware to metal work.

Omitted Work.

231. The hardware for all exterior windows and for exterior doors to roofs is provided under the second contract (see paragraph 26).

Work Specified Before.

232. All hardware for cast bronze sash, for elevator doors, for partition sash and also for vaults is specified hereinbefore.

Setting.

The setting of all finished hardware is specified hereinbefore.

Rough Hardware.

233. All nails, brads, screws, straps, anchors, bolts and other rough hardware shall be furnished by the Contractor.

Samples.

234. A complete line of samples must be submitted to the Architects for approval before ordering the hardware, and such samples shall constitute the standard of all hardware to be delivered. These samples must be left in the possession of the Architects until the completion of the building. If, in violation of this specification, other goods are substituted, the Contractor will be required, at his own expense, to take off such substituted goods and replace them with goods in conformity with the samples, and to make good also any injury or defacement to any part of the building involved in making such changes.

Information.

235. The Contractor shall obtain all information required as to details, sizes, shapes, hand, bevel, thickness, etc., of doors, windows and all other items requiring hardware, and shall make all hardware suitable and of perfect fit for each particular case.

Protection.

236. The Contractor shall be responsible for the care, preservation and protection of all hardware until the acceptance of the building. All knobs shall be covered with flannel tied securely. All protection shall be maintained until its removal is ordered by the Architects.

Character of Hardware.

237. Hardware for toilet rooms, lavatories and sink closets (except for the entrance door hardware in such rooms) shall of solid cast bronze heavily nickel-plated. All other hardware throughout the building shall be of solid polished cast bronze of plain pattern with natural finish. The hardware in the entrance and elevator halls in the 1st story shall be of an oxidized finish.

The Contractor shall guarantee all nickel-plating against rubbing off, peeling or cracking under ordinary use for a period of two years. A written guaranty signed by the manufacturers, and endorsed by the Contractor, shall be furnished to the Commissioner. Should any defects develop within the period mentioned the same shall be made good by the Contractor without cost.

Door Hardware.

238. The Commissioner reserves the right to change the swing of inter-communicating doors from that indicated on the drawings, wherever such change in his judgment is required, before the door frames are set Hardware for doors shall not be ordered until the swing of same has been verified.

All doors shall be equipped complete with butts, locks, knobs, roses, door checks, door stops, etc., as required in each case.

Butts.

239. Each full-sized interior door throughout the building shall be hung on 5-inch butts; all exterior doors shall be hung on 6-inch butts. Doors under 7 feet high shall have two butts, those 7 feet high or over shall have three butts to each door or leaf. All butts shall be extra heavy, five knuckle, ball tip, long service with fibre washers or ball bearing, having fast pin, except where otherwise specified, and for the various sizes shall not weigh less than the following schedule (without screws):

4 x 4 inches, weight, per pair, 2 lbs. 7 oz.
4½ x 4½ inches, weight, per pair, 3 lbs. 10 oz.
5 x 5 inches, weight, per pair, 4 lbs. 8 oz.
5 x 6 inches, weight, per pair, 6 lbs. 8 oz.
5 x 7 inches, weight, per pair, 7 lbs. 7 oz.
6 x 6 inches, weight, per pair, 6 lbs. 6 oz.

All other sizes shall be in proportion to the above.

The Contractor may substitute for the cast butts wrought bronze metal butts with ball bearing washers, the washers to have case hardened steel runways and to be encased in bronze metal. Butts shall be furnished with non-rising pins and conform to the following weights per pair (without screws):

3 x 3	inches.....	0 lbs.	14½ oz.
4 x 4	inches.....	1 lb.	14 oz.
4½x 4½	inches.....	2 lbs.	8 oz.
5 x 5	inches.....	3 lbs.	2 oz.
6 x 6	inches.....	4 lbs.	13 oz.

For doors opening in to rooms or spaces from halls, etc., loose pin butts to conform to the above specification must be provided.

The butts in all cases shall be wide enough to allow the door to open full way clear of trim and plinth blocks, and they shall have the screw plates set full on the edge of the door.

All doors to pipe spaces, to shafts, to valve pockets, panelboards, inter-connection boxes, service boxes and access doors to furred spaces, shall be provided with butts in accordance with the above.

All watercloset compartment doors and doors from toilets to retiring rooms shall be hung on one pair of cast bronze, double box flange, single-acting spring hinges 4 inches high of approved manufacture and so arranged that the doors shall swing and remain open for toilets and remain closed for retiring rooms.

Butts shall be provided under the definite contract when the doors occur in the 1st story, 4th story, within the spaces enclosed by dotted lines on the various plans, on exterior walls above the 1st story and in the fan rooms in the 25th story. Elsewhere butts of all kinds shall be provided under the contract units, except that the butts for valve pocket, panelboard, inter-connection boxes, service boxes and access doors to furred spaces, shall be in the definite contract throughout.

Locks.

240. All locks, latches, etc., shall be easy spring, mortise type and shall have anti-friction attachments. All parts, except case, springs and yokes, shall be bronze, the boxes shall be of heavy cast iron, bronze plated or japanned. All locks shall be different, so that each lock can be opened only by the keys belonging to it; this requirement shall not affect the master-keying hereinafter specified.

All locks shall have cast bronze face, latch, bolt hub and box strikes.

All locks and furniture of same shall suit the width of stiles. Locks for pairs of doors shall have rabbeted faces and strikes.

Type "A" locks for offices and use in general in the interior of the building shall be a 7½-inch by 3½-inch or 6¾-inch by 4-inch mortise front-door lock with spring bolt controlled by knobs on both sides, with stop work in the face and dead bolt controlled by cylinder on the outside and thumb-piece on the inside.

Type "B" locks for intercommunicating doors between rooms and offices shall be a 6-inch by 3½-inch or equivalent size lock with three bolts; the latch bolt shall be operated by knob from both sides, and two dead bolts, one operated by thumb-pieces on each side.

Type "C" lock shall be Type "A" lock for double doors with double furniture complete.

Type "D" lock for the doors to slop-sink closets shall be a 5⅜-inch by 4-inch, or equivalent size, cylinder mortise latch operated from both sides by knob and secured from outside by stop work in face locking the outside knob, the cylinder operating the latch at all times.

For doors between toilet rooms and vestibules, those to storage and filing spaces and to closets, the locks shall be similar to "D" without stop work and with dead bolt controlled by cylinder on the outside only.

Type "E" lock for use in the doors from corridors to vestibules or passages to toilets shall be an extra heavy mortise knob latch 2½ inches by 3⅞ inches, or equivalent size, operated by knobs from both sides.

Type "F" lock for doors to interconnecting stairs in departments shall be similar to Type "A," modified to suit the special conditions.

Type "G" lock for doors to water-closet compartments shall be a cast bronze half mortise dead bolt 3 inches by 3½ inches, or an equivalent size, operated by small oval knob from the inside; the strike of same shall be made box shape to fit around the marble partition to act as a stop for the door, and be fastened by bolts to the marble work.

Type "H" lock for the doors from toilets to retiring rooms shall be a half-mortise knob latch of similar size to the half-mortise bolt described for water-closet doors; the latch shall be operated from both sides by knobs at all times.

Type "I" locks for doors to pipe shafts (small size), valve pockets, panelboards, interconnection boxes and service boxes shall be a cylinder type of cabinet lock with paracentric key.

Type "J" lock for full size doors to pipe spaces and shafts, the large-size panelboards and also fan rooms shall be a mortise spring cylinder latch 3⅝ inches by 3⅝ inches, or an equivalent size, operated by key from outside and by knob from the inside. It shall also have a knob on the outside to act as a pull.

All entrance and vestibule doors to the main halls in the 1st story shall have extra heavy mortise cylinder dead locks with cases 3¾ inches by 3⅞ inches, or equivalent size, with dead bolt operated by a key from both sides.

The doors from the concourse to the telephone room vestibules shall be provided with mortise dead locks as described for the main entrance and vestibule doors. These doors shall have push plates on one side and bar pulls on the other. All other 1st story doors shall have type "A" locks.

Where the doors requiring locks of type or types specified before occur in the 1st story, 4th story, within the spaces enclosed by dotted lines on the various plans, on the exterior walls of the building, and in the two fan rooms in the 25th story, they shall be provided as a part of the Definite Contract. Elsewhere they shall be provided under the contract units, except the locks for pipe spaces, valve pockets, panelboards, interconnection boxes and service boxes throughout the building which shall be provided as a part of the Definite Contract.

Master-keying.

241. All cylinder locks shall be master-keyed by floors and departments and grand master-keyed for the building, all in the most approved manner, as will be directed by the Architects, so as to provide the greatest security and the least wear. Each key having a different function shall have a different key bow to designate the function—change key bows having one shape, floor master-key bows another, etc.

All locks shall tie in properly with the cylinder locks furnished and set under the second contract.

Knobs, Roses, etc.

242. All doors shall be trimmed alike on both sides unless otherwise mentioned.

Outside knobs shall be pinned fast to the spindle, and the adjustment obtained on the inside by a set screw or clamp instead of the old-fashioned side screw entering the spindle. The shanks of all knobs shall have machine-finished bearings fitting closely into corresponding machine-finished thimbles on the roses, so that the knobs will fit snugly and be free from rattle. All roses shall be heavy cast bronze bracket-bearing roses.

All knobs throughout shall be 2½-inch plain spheroid pattern, heavy cast knobs, with the City seal cast on the face. The knob will be detailed later.

Double Doors.

243. All double doors shall have dummy furniture on the standing leaf to match the hardware on the other door, and shall be equipped with mortise lever-action flush bolts 1¼ inches wide, the upper bolt to come within 6 feet of the floor, and the lower bolt shall be 12 inches long. Marble floors shall have bronze collars for the bolts.

Where occurring in the 1st story, 4th story, or the spaces enclosed by dotted lines on the various plans, they shall be provided under the Definite Contract; elsewhere they shall be provided under the contract units.

Pulls, Push and Kick Plates.

244. Push plates shall be plain, polished, heavy cast bronze with round corners and edges, and shall be 16 inches by 4 inches. Pull plates shall be of the same size as the push plates and shall have a heavy cast bronze grip not less than 7 inches long and of such style and shape as the Architects may select. Kick plates shall be 1/10 of an inch thick and shall be the full height and width of the bottom rail of the doors.

The above shall be furnished for all exterior and inner vestibule doors in the 1st story and for the doors to the telephone room vestibules as a part of the Definite Contract. All dumbwaiter and mail-chute doors shall have heavy bar lifts as a part of the Definite Contract.

Glass Guards.

245. All doors having long panels of glass shall be provided on each side with ¾-inch bronze bar guards with bent ends fastened to heavy cast plates secured by through machine screws from the inside to prevent removing the bars on the outside.

Under the Definite Contract glass guards must be provided for the exterior and inner vestibule doors in the entrance halls, the exterior doors to the telephone room vestibules, for the side panels of the telephone room vestibules, and the doors from the telephone room vestibules to the telephone rooms in the 1st story.

Door Checks and Springs.

246. The doors listed below shall have "Norton," "Blount," "Corbin" or an equally good liquid door check and spring. The checks shall be polished and of proper size and strength to operate the door in every case; they shall be not less than No. 4 Blount or Corbin "D" for interior and Blount No. 5 or Corbin "E" for exterior doors. They shall be of bronze metal in the 1st story and bronze plated above the 1st story.

They shall be provided as a part of the Definite Contract for all exterior and inner vestibule doors in the entrance halls, doors to spaces under the main stairs, the telephone room and telephone room vestibule doors in the first story, and for toilet-room doors, the vestibule or passage doors leading to toilets, slop-sink closet doors, fan-room doors, elevator machine room doors in the 25th floor, and stair-well doors when occurring within the spaces enclosed by dotted lines on the various plans, including the fan rooms on the 25th floor.

Elsewhere they shall be provided under the contract units.

Door Holders.

247. All door holders shall be equal to the "Corbin," "Yale & Towne" or "Ruppman" cast bronze door holders with rubber tips. They shall be provided for all doors having door checks and shall be included in the Definite Contract or furnished under the contract units in accordance with the requirements for same specified under Door Checks.

Door Stops.

248. All doors shall be provided with cast bronze rubber-tipped door stops. Where the door is trimmed with hardware under the Definite Contract, the door stops shall be included; elsewhere they shall be furnished under the contract units.

For exterior and inner vestibule doors in the 1st story and the doors to the telephone vestibules and rooms, there shall be provided in addition hooks to engage eyes on the doors.

Water closet compartment doors shall be provided with stops to match the above provided under the definite contract or contract units as specified above.

Miscellaneous Hardware.

Partition Sash.

249. Pivots and controlling hardware for partition sash are specified under Hollow Metal Work.

Ceiling Lights.

250. All ceiling lights shall be equipped under the Definite Contract with friction pivots and a cast ring on a plate not less than 1 inch by 2½ inches, the eye of the ring shall be large enough to allow for the entrance of the hook on a sash pole.

Access doors to furred spaces shall be provided with butts to conform with the foregoing requirements, and with chain stays secured to rings on plates, under the Definite Contract.

Transom Sash.

251. The hollow steel transom sash shall be fixed and will require no hardware. The transom sash over the exterior doors to the telephone rooms shall be provided with heavy cast bronze friction pivot and secured with extra heavy cast bronze transom catch.

Bolts.

252. The vertical sliding dumbwaiter and private mail chute doors shall be provided under the Definite Contract with horizontal mortise bar lock controlled by lever or knob at the centre of the bottom rail of the door, the bolts to shoot into the jamb on either side.

PAINTING.

Materials.

253. All materials for use in painting shall be delivered in unbroken packages bearing the brand and maker's name, and shall be mixed on the premises.

All paint not otherwise specified shall be composed of white lead and pure seasoned raw linseed oil with 15 per cent. of the best quality zinc white, the necessary color to give the desired tint and not more than 5 per cent. of oil dryer. White lead shall contain not less than 70 per cent. carbonate of lead to 30 per cent. hydroxide, nor more than 75 per cent. of carbonate of lead to 25 per cent. of hydroxide.

Oil shall be pure linseed oil free from foots.

Drier shall be made without the use of gums and be free from rosin or petroleum products.

Putty, except for glazing, shall be composed of white lead paste mixed with dry white lead until of the proper consistency, the putty to be colored to match the color of the paint.

The Contractor shall sandpaper all inside woodwork, rubbing in the direction of the grain, and also clean all moldings before the first coat of paint or varnish is applied; the Contractor shall putty-stop nail holes in wood in the best manner before finishing same.

All coats of paint must be thoroughly brushed out and lightly sandpapered.

Work to be Bone.

254. All painting as specified below shall be done by the Contractor as a part of the Definite Contract, except where particularly otherwise specified.

Exterior.

255. All metal work on the exterior of the building provided under this contract, except bronze or copper, shall be given three coats of white lead paint. It shall be primed with the best quality of red lead and linseed oil, except where such priming coat is otherwise specified under Ornamental and Miscellaneous Metal Work.

In addition, all iron or steel work on the exterior of the Building provided under the second contract shall be given three coats of the white lead paint specified above.

Interior.

256. All hardwood shall be stained, using an oil stain; filled, using a mineral paste filler, and then given three coats of the Sherwin-Williams Co's., The Patterson-Sargent Co.'s, Berry Bros., the Standard Varnish Co.'s or Emil Calman & Co.'s, or an equally good varnish, sandpapering lightly between coats and rubbing down after the last coat with pumice and oil.

All cement floors installed under this contract, except throughout all pipe spaces in the building, shall be given two coats of a preservative material of brand to be approved by the Architects. The material used shall be a penetrating one and not a film coat and the first coat shall not cover more than 200 square feet per gallon. The floors shall receive a thorough dry cleaning and stains of all nature removed before the preservative is applied. The cement shall be thoroughly dry before the application and the material shall be applied in such a manner as to not stain or discolor the floors. Where the floor is installed under the Definite Contract the preservative shall be so installed, elsewhere it shall be installed under the contract units.

All interior painting, other than the above, will be omitted from the contract.

PLUMBING WORK.

257. This specification is intended to include the installation and completion of the work as may be hereinafter specified or as may be shown upon the drawings.

Soil and Vent Risers.

258. There shall be provided the soil and vent risers complete on stacks Nos. 7 and 19.

Roughing for Fixtures.

259. There shall be provided roughings for fixtures on the fourth story and for all fixtures shown within the dotted lines as shown upon the drawings.

Acid Waste.

260. There shall be provided an acid waste, which shall extend from an acid waste already in place at the 1st story, to a point 1 foot above finished door of 26th story.

Air Drawing Machine.

261. There shall be installed complete air drawing machinery as may hereinafter appear.

Vacuum Risers and Runs.

262. There shall be installed all necessary vacuum risers and horizontal runs of piping in the basement, mezzanine and the 4th story.

Vacuum Outlets.

263. Vacuum outlets which may be in partitions adjoining stair wells shall be provided as shown within the dotted lines, as indicated upon the drawing.

Hose Racks, Valves, etc.

264. There shall be provided complete, all hose racks, valves, etc., as may be shown upon the drawings.

Gas Riser.

265. There shall be provided a gas riser adjoining acid waste, as shown.

Gas Outlets.

266. There shall be provided gas outlets which may be in and adjoining the partitions adjoining the stairwells and which are shown upon the drawings within the dotted lines.

Drinking Water Risers.

267. There shall be provided drinking water risers and returns, as shown on stocks Nos. 7 and 19.

Supply Branches.

268. Supply branches shall be run to all fixtures on the 4th story and to all fixtures shown within the dotted lines indicated upon the drawings.

Fixtures.

269. The fixtures shall be provided and set complete as shown upon the 4th story and all fixtures shown within the dotted lines indicated upon the drawings.

Drawings and Specifications.

270. The general drawings are intended to show the position of the various fixtures, machinery, apparatus, appliance and parts thereof, and pipes and connections, etc., as closely as the scale of the drawings will permit, such positions being subject, however, to the changes made necessary by building construction. When requested by the Architects, the Contractor shall submit detailed drawings and specifications, showing the exact manner and method which he proposes to employ, in constructing and connecting the above fixtures, machinery, apparatus, etc.; and the space which they will occupy, so that there may be no clash or interference between the various trades, and that the plant may be properly and conveniently operated.

Co-operation.

271. The Contractor shall properly connect with all appliances, apparatus, machinery, fixtures, etc., supplying all material and labor necessary to make the work complete and perfect, and leaving same in perfect working order. All appliances, apparatus, machinery, fixtures, etc., shall be placed as indicated on the drawings and shall not interfere in any way with the construction work or work of other trades.

The Contractor shall carefully fit and center all outlets for the plumbing pipes, fixtures, apparatus and gas, with the woodwork, trim, paneling, marble, wall or ceiling spaces, and shall obtain all necessary information as to accuracy of location from the Architects, and shall be held responsible for all misplaced outlets, and shall shift and rectify all mistakes at his own expense.

Masonry.

All cutting and patching of masonry shall be done as hereinbefore specified.

Carpenter Work.

272. All carpenter work, including necessary cleats and supports for fixtures, and all cutting and patching shall be done as hereinbefore specified.

Structural Steel.

All structural steel work required for supports of pipes, apparatus, etc., shall be supplied by the Contractor.

Painting.

273. The Contractor shall paint with one coat of red lead and linseed oil, followed by three coats of white lead and linseed oil, all exposed piping, insulation and all machinery, apparatus, etc., as hereinafter specified. The Contractor shall also paint all traps, supplies, escutcheons, stop valves, etc., of all lavatories and slop sinks throughout the building with two coats of white lead and linseed oil, followed by two coats of white Ripolin enamel, or other enamel equally good, as may be approved by the Architects.

Marble and Tile Work.

274. All marble and tile work, including templets for water closets and slop sinks, and all cutting and drilling shall be done as hereinbefore specified.

Permanent Drainage Connections.

275. The drainage connections from the building to the sewers in the streets have been provided for in an earlier contract.

Permanent Water Supply Connections.

The service mains from the street mains into the building have been provided for in an earlier contract.

Temporary Water-closets During Construction.

276. The Contractor shall provide and set upon each of three upper stories at points designated by the Architects, sets of J. L. Mott Iron Works, Plate 6050-A enameled, cast iron, automatic water closet ranges, each range shall have 5 seats, and each range shall be complete with supply and branch soil connections, traps, etc. The ranges shall be for the use of everybody connected with the building during construction. The Contractor shall keep the ranges in proper working order, and shall protect ranges and pipes from freezing, and shall keep adjoining space in neat and clean condition. During the progress of the building, or as may be directed by the Architects, the temporary toilets on the several stories shall be removed to other stories and the space vacated shall be thoroughly cleaned and disinfected.

In addition, the Contractor shall install in the temporary office a vitreous syphon jet closet of standard make with copper lined cistern, with ball float, pull, etc., with control on supply to tank. He shall connect the closet to the temporary sewerage system and the tank to the temporary water supply.

In addition, in the large room he shall install an enameled iron lavatory with 12-inch integral back, 13-inch by 18-inch basin and apron, supporting it properly on steel brackets. He shall equip it with trap and waste and vent carried above the roof of the office, and also connect it with the water supply, providing a controlling cock under same and a heavy, large-size compression, nickel-plated, brass faucet. Basin shall have chain and plug. The work shall be installed under the direction and shall meet the approval of the Architects.

Temporary Water Supply During Construction.

277. The Contractor shall furnish and install in the basement a pump on the main of the temporary water supply and shall operate same as may be required to provide an ample supply of clean water for all purposes during the operations. All labor necessary in handling water and all barrels, hose, pails, etc., must be furnished by the Contractor, and he shall, in addition pay for all water used in the building operations.

From the pump the Contractor shall extend a large-sized valved discharge from which shall be taken two 3-inch valved risers, which shall extend up through the building at such points as the Architects may decide. From each riser on each story shall be taken two ¾-inch faucets threaded for hose, which shall discharge over barrels. From each of the said barrels on each story shall be taken a 2-inch wrought iron overflow, which shall connect into 3-inch waste risers extending through the building and which shall drop to the ceiling of the mezzanine, shall unite and run to street sewer. Valved cross connections shall be made between the street pressure main as above described and the pump discharge. From street pressure main shall be run a valved pump suction complete.

After the above temporary water supply with all its branches, connections, risers, etc., have been run to the various appliances, fixtures, etc., of all work herein described, any change in the said work which may be necessary on account of the change in position of said appliances, fixtures, etc., of any description herein contained, or as may be necessary, or from any other cause, shall be made by the Contractor, at his own expense.

The temporary water supply shall be maintained in thorough repair and order and shall be protected from freezing.

The Contractor shall be responsible for the care and upkeep of the pump supplies, discharges and supply mains, etc., as above specified.

After the work has been completed and no further temporary water supply is required, the Contractor shall entirely remove same.

Cast Iron Frames and Covers.

278. Cast iron frames and covers shall be provided for all pits, trenches, manholes, etc., where shown or specified. The covers shall be provided with heavy cast iron recessed rings for lifting and with checkered-top surfaces. The frames must be rabbeted and set flush with the floor, and shall be cast with shoulder to fit over trench wall.

Diameter of Pipe.

279. The diameter of all pipes shall be understood to mean the clear interior diameter.

Cast Iron Pipe.

280. Cast iron pipe, where specified, shall be uncoated, sound, truly cylindrical, smooth, with inner and outer surface concentric, free from cracks, sand holes and

other defects, of uniform thickness and of the grade known in commerce as "Extra Heavy."

Cast iron pipe, including hub, shall not weigh less than the following average weights per lineal foot:

Inside Diameter.	Weights, per Lineal Foot, Including Hubs.
2 inches	5½ pounds.
3 inches	9½ pounds.
4 inches	13 pounds.
5 inches	17 pounds.
6 inches	20 pounds.
7 inches	27 pounds.
8 inches	33½ pounds.
10 inches	45 pounds.
12 inches	54 pounds.

Cast iron pipe shall have size, weight and maker's name clearly cast on each length.

Wrought Iron Pipe.

281. All wrought iron pipe shall be galvanized and equal to Beyers & Co.'s, Reading Iron Co.'s, Susquehanna Iron Co.'s, or an equally good, manufacture, of full card weight and manufactured from rolled muck bars, which shall be made from best quality high-grade pig iron, puddled by itself without the admixture at any time of any scrap iron.

The muck bars shall be of uniform manufacture and shall be produced by the mills making the pipe. The skelp shall be made by rolling together a certain number of muck bars by themselves without the admixture of any scrap or other iron. The use of box fagots is absolutely prohibited.

Pig iron used in the manufacture of wrought iron pipe shall contain among other chemical properties the following:

Silicon	1.25 to	1.75	per cent.
Sulphur under	.05		per cent.
Phosphorus	.40 to	.60	per cent.
Manganese	.60 to	1.00	per cent.

Wrought iron pipe shall be of quality and grade known in the trade as "Standard" and "Extra Strong." Pipe of 1¼ inches and smaller, both "Standard" and "Extra Strong," shall be tong-drawn, butt-welded, all sizes of larger diameter shall be lap-welded. Each length of pipe shall have the maker's name clearly rolled upon it, and for sizes of 2 inches and larger shall have clearly stenciled upon it "Guaranteed wrought iron pipe." Small sizes shall be securely and properly tagged, bearing the same inscription. Each length of "Standard" pipe shall be tested at the factory by a hydraulic pressure of 600 pounds per square inch. Each length of "Extra Strong" pipe shall be similarly tested to 1,000 pounds per square inch. The Contractor shall furnish the Architects with certificates from the pipe manufacturers, stating that wrought iron pipe is being shipped to the building, of quality and weight specified, and giving the quantity and size.

282. Standard galvanized wrought iron pipe, when specified, shall not be less than the following average weight per linear foot:

Diameter in Inches.	Weight Per Linear Foot.
½ inch	.84 pound
¾ inch	1.12 pounds
1 inch	1.67 pounds
1¼ inches	2.25 pounds
1½ inches	2.69 pounds
2 inches	3.66 pounds
2½ inches	5.77 pounds
3 inches	7.54 pounds
3½ inches	9.05 pounds
4 inches	10.72 pounds
4½ inches	12.49 pounds
5 inches	14.56 pounds
6 inches	18.76 pounds
7 inches	23.41 pounds
8 inches	28.34 pounds
9 inches	33.70 pounds
10 inches	40.00 pounds
11 inches	45.00 pounds
12 inches	49.00 pounds

283. "Extra Strong" galvanized wrought iron pipe, when specified, shall not be less than the following average weights per linear foot:

Diameter in Inches.	Weight Per Linear Foot.
½ inch	1.09 pounds
¾ inch	1.39 pounds
1 inch	2.17 pounds
1¼ inches	3.00 pounds
1½ inches	3.63 pounds
2 inches	5.02 pounds
2½ inches	7.67 pounds
3 inches	10.25 pounds
3½ inches	12.47 pounds
4 inches	14.97 pounds
4½ inches	18.22 pounds
5 inches	20.54 pounds
6 inches	28.58 pounds
7 inches	37.67 pounds
8 inches	43.00 pounds
9 inches	48.25 pounds
10 inches	54.25 pounds
12 inches	65.00 pounds

Steel pipe shall not be used upon this work.

Brass Pipe.

284. All brass pipe, where specified, shall be heavy, seamless drawn brass pipe, "Iron Pipe Size," thoroughly annealed, and tinned or nickel plated. No hard pipe or brazed tubing shall be used. All brass pipe shall be equal to that of the American Tube Works, Benedict & Burnham Manufacturing Company, Ansonia Brass Company or Bridgeport Brass Company, and shall be tested to 1,000 pounds per square inch.

Brass pipe, "Iron Pipe Size," shall not be less than the following average weight per linear foot:

Diameter in Inches.	Weight Per Linear Foot.
½ inch	.90 pound
¾ inch	1.25 pounds
1 inch	1.70 pounds
1¼ inches	2.50 pounds
1½ inches	3.00 pounds
2 inches	4.00 pounds
2½ inches	5.75 pounds
3 inches	8.30 pounds
3½ inches	10.90 pounds
4 inches	12.70 pounds
4½ inches	13.90 pounds
5 inches	15.75 pounds
6 inches	20.60 pounds

Lead Pipe Work.

285. Lead water pipe, where specified, shall be "AAA" lead. Short vent branches of "D" lead pipe shall be used only on water closet and urinals and bends. All lead traps, where specified, shall be equal to Du Bois heavy drawn traps, with nickel-plated brass trap screws and cleanouts.

Earthenware Pipe.

286. All earthenware pipe, where specified, shall be best quality sound Akron hub and spigot, hard-burnt, vitrified earthenware pipe, free from all blisters, checks, cracks or flaws of any description and shall have smooth interior waterway and shall be truly cylindrical and straight.

Pipe Fittings.

287. All fittings for pipe work shall be of heavy pattern, sound, free from sand holes and other defects, of careful construction and of uniform thickness.

Fittings for "extra heavy" cast-iron pipe shall be of same quality as the pipe to which they belong.

Fittings for wrought iron pipe shall be galvanized heavy malleable iron fittings of design, finish, weight, quality and manufacture as may be approved by the Architects.

Fittings for galvanized wrought iron drainage work shall be threaded heavy, regulation, galvanized, malleable iron, recessed drainage fittings, with smooth interior waterway and threads tapped, so as to give a uniform grade to branches of at least ¼ inch to the foot.

Fittings for vent pipes shall be threaded, galvanized, heavy, malleable iron water pipe fittings.

Fittings for galvanized wrought iron water pipe shall be galvanized long sweep, heavy hydraulic malleable iron fittings tested to at least double that of the working pressure, or to the pressure caused by the shock of the sudden closing or opening of valves.

Where necessary, reducing fittings shall be used upon this work, no bushings will be allowed.

Fittings for brass pipe shall be threaded, finished cast brass fittings, "Iron Pipe Size," smooth and clean, free from sand holes and other imperfections, and of strength and material corresponding to the pipe to which they belong.

Pipe Joints and Connections.

288. All joints of cast-iron pipe and fittings shall be made by means of a rope of new oakum securely calked into bottom of hub of joint, after which shall be run in one pour 12 ounces of fine, soft, molten pig lead for each inch in the diameter of the pipe; after cooling the lead shall be carefully calked, with proper tools, making joint secure and gas-tight.

All joints of screw pipe shall be made up with pure red lead mixed with linseed oil.

The burr formed in cutting pipe shall be carefully reamed out before pipe shall be put into the work.

The joint between wrought-iron and cast-iron pipe shall be made by properly caulking the wrought-iron pipe into the hub of the cast-iron pipe, the end of the wrough-iron pipe having a ½-inch ring screwed on to form a spigot.

All screw joints shall be made up close so that no threads will be seen.

All joints of lead pipe and between lead and brass shall be round-wiped lead joints.

Joints between lead and cast or wrought-iron pipes shall be made with heavy brass ferrules or soldering nipples, securely calked or screwed into the cast or wrought-iron pipe.

All joints of earthenware pipe shall be made with picked oakum and Portland cement; great care shall be taken that the inside of each joint be free from all projecting cement, true and smooth before proceeding to lay another pipe.

Joints between earthenware traps and iron pipe shall be made with heavy lead bends and heavy cast brass floor flanges.

Pipe Supports.

289. All vertical lines of pipe shall be firmly supported at the base by means of wrought-iron hangers, or masonry piers, and supported at each floor level by heavy wrought-iron clamp hangers, secured to walls or to iron beams. All horizontal runs of pipe shall be securely supported by heavy pipe hangers securely hung from iron beams.

All pipe hangers shall be of such design and size as may be required to properly support the pipe in every case and of material and make as may meet with the approval of the Architects, shall be set neatly and carefully, shall be of same finish as the pipes they support, shall be placed at frequent intervals, and where two or more pipes run side by side, combination hangers shall be employed. Hangers set on plastered ceilings shall be set before plastering has been started. The use of pipe hooks for supporting pipes is absolutely prohibited.

Pipe Unions.

290. All lines of water pipes shall be provided at intervals with heavy pattern cast brass, ground face unions, to admit of alterations and repairs, on sizes 2 inches and under. On pipe over 2 inches in diameter flange unions shall be provided.

Flange unions shall be special, extra heavy standard galvanized malleable iron unions.

Pipe Couplings.

291. All couplings on standard pipe shall be standard couplings; all couplings on extra heavy pipe shall be extra heavy couplings; all couplings shall be galvanized.

Pipe Nipples.

292. All nipples where the unthreaded part is less than 1½ inches long shall be galvanized and of the grade next heavier in strength and weight than the pipe upon which they may be used, and shall be made from the same make of pipe as that used upon the work.

Soldering nipples shall be heavy cast brass or brass pipe "Iron Pipe Size"; when cast they shall not be less than the following average weights:

Diameter of Nipple.	Weight.
1½ inches	8 ounces
2 inches	14 ounces
2½ inches	1 pound 6 ounces
3 inches	2 pounds
4 inches	3 pounds 8 ounces

All brass nipples for water closet connections shall be of special heavy pattern as may be approved by the Architects.

Pipe Sleeves.

293. Arched or other proper openings shall be provided for all pipes of a diameter of 6 inches or larger, passing through all outside or bearing walls to prevent damage from settlement or other causes. All pipes passing through foundation, bearing walls, roofs, etc., and all hot and circulation pipes, etc., passing through floors, partitions, walls, etc., shall be provided with suitable standard wrought-iron sleeves All sleeves shall be of ample size, so that the pipe they protect may pass through freely. All sleeves surrounding pipes passing through outside walls of the building shall have the space between the inside diameter of the sleeve and the outside diameter of the pipe, calked water-tight with molten metal at both the outside and inside faces.

Pipe Escutcheons.

294. All pipes passing through ceiling, walls, partitions, etc., of any description of finished rooms or where may be directed shall be fitted with neat special pattern, perfectly smooth-face white metal escutcheons. Pipes in groups shall be provided with special escutcheons. All escutcheons shall be securely set, shall present a neat and tidy finish and shall be of make and pattern as may be approved by the Architects.

Pipe Roof Connections.

295. All pipes passing through roof, etc., shall be provided with standard, secure and water-tight fittings, arranged to allow free movement of pipe stack, due to expansion or contraction or other causes, independent of roof or roof flashings. Pipes shall be provided with copper sleeves and flashings which shall be of 20-ounce cold rolled copper. Flashings shall extend 18 inches in all directions from side of pipe and shall be run under roof material and securely fastened. The copper sleeve shall extend at least 6 inches below roof flashing. All soil, waste and vent pipes passing through roofs shall be at least 4 inches in diameter and shall be of such diameter 1 foot below under side of roof.

Pipe Arrangement and Spacing.

296. All lines of pipes, horizontal and vertical, throughout the building, shall be run as direct as possible; in parallel lines where two or more run together, and in general, care shall be taken that the work presents a neat and workmanlike appearance.

All hot, cold and circulation pipes shall be separated from each other by at least 3 inches; should this be unavoidable, pipes may be insulated with material as hereinafter specified under Insulation.

All water pipes shall be spaced at least 9 inches from steam pipes.

Pipes to Drain.

297. All horizontal pipe lines shall be carefully laid to drain, care being taken that there be no sags or bends.

Pipe, Protection Against Freezing.

298. All supply pipes and branches shall be kept from outside walls as much as possible so as to avoid freezing; should this be unavoidable, pipes shall then be insulated with material as hereinafter specified under Insulation.

Pipe, Contraction and Expansion.

299. Due allowance shall be made for the expansion and contraction of all horizontal and vertical, water and other pipes through the building, and precaution taken against damage therefrom, and expansion couplings, loops or other methods, meeting with the Architects' approval may be employed.

All branches from hot-water risers shall be arranged with fittings so there will be no strain due to the moving of the riser.

Pipe, Emptying and Valved Drainouts.

300. Emptying pipes shall be run as shown on the drawings with ¾-inch valved drain-out branches connecting with all supply risers and returns and other pipes at their foot.

Pipes Above Roof.

301. All pipes that may be carried above the roof shall extend at least 2 feet above the roof or as may be directed by the Architects, and shall be removed well away from windows, ventilators, vent or other flues, and shall be properly and securely braced to meet all requirements.

Pipe Openings in Floors and Ceilings.

302. All openings in floors and ceilings about lines of pipe and pipes in chases, shall be entirely packed and closed with wire lath and plaster, so as to prevent the passage of air from one story to another.

Pipes in Contact with Cement.

303. All pipes that may be buried in cinder or cement concrete, or cement, shall be thoroughly coated with two coats of asphaltum and wrapped in tar paper.

Pipes Under Marble, Tile or Cement Floors.

304. All pipes laid under marble, tile or cement floors shall be encased in a loose-fitting tube of galvanized sheet iron well wired in place, to prevent cracking of flooring over pipes and yet allow for contraction and expansion.

Pipes Concealed.

305. All runs of pipes in partitions or behind furring or in furred ceilings or under floors, or where otherwise concealed, shall be set and tested to the satisfaction of the Architects before being covered in, and if not properly set so as to be covered and propely fitted, said pipes shall be removed and reset by the Contractor at his own expense.

Branch lateral waste, vent and supply branches for fixtures shall be run in partitions, floors, ceilings, hanging ceilings, or back of furring, and the Contractor shall adjust his work to this requirement, whether work is so shown or not.

Pipe Underground.

306. All drainage pipes, house sewers, fresh air inlets, house drains, leaders, court and area drains, etc., and their traps, fitting, etc., that may be buried below the cellar floor or buried under the ground, unless otherwise specified, shall be of "extra heavy" cast-iron pipe, firmly supported upon concrete or masonry piers or foundations placed every five feet. After testing and inspection, all the said pipes shall be thoroughly painted with two coats of best quality asphaltum turpentine varnish of brand approved by the Architects.

Pipe Obstructions.

307. All obstructions of any description occurring in any pipes or traps of any description before the completion of the temporary or permanent work, shall be removed by the Contractor at his own expense, and all pipes shall be kept in constant and serviceable working order. Upon completion of the building, all pipes, traps, etc., shall be cleaned and freed of any and all deposits or obstructions.

Waterproofing Pipes and Connections.

308. All pipes passing through foundations, vaults and area walls and cellar floors, or other waterproofed floors or walls, shall be made water-tight with ten-pound sheet-lead flashing extending not less than 14 inches from the pipe and as may be required by the work called for under waterproofing. Sump boxes and other appliances set in the cellar floor shall be heavily flashed or otherwise prepared for waterproofing as may be required.

Traps.

309. All main house, court, floor, area and other drains, leaders, and all sewer or drain-connected fixtures, shall be effectively trapped by means of a proper bend trap as shown on the drawings.

All traps for house, leader, area, floor and other drains shall be heavy pattern, galvanized malleable-iron running traps with handhole cleanouts full size of trap when traps are less than 6 inches in diameter.

All traps and cleanouts shall, if possible, be always readily accessible, and when placed below the floor or in the ground, shall be provided with water-tight masonry access pits with cast-iron frame and covers of size and location as indicated upon the drawings.

All traps shall be well supported and set true with respect to their water seal, and shall have a water seal of at least 1½ inches.

All traps shall be set as close to the pipe or fixture trapped as possible, and shall be so arranged that the waste from a fixture on its way to the house drain shall pass through but one trap.

All exposed or accessible traps, except earthenware traps shall have brass screw cleanouts set below water seal.

Earthenware traps shall have no vent horns.

Traps for fixtures shall be of the following dimensions:

Fixture.	Diameter of Trap (not less than).
Water closet	4 inches.
Urinal	3 inches.
Lavatories	2 inches.
Sinks	2 inches.
Slop sinks	2 and 3 inches.

Valves.

310. Valves shall be provided and set to control the Croton street mains at point of entrance into building, fish traps, meters, filters, supplies and discharges to and from all tanks, pumps, etc., to control all hot, cold, tank, fixture and other risers, to control all groups of and each single fixture, to control all branches and lines to water supplied apparatus, appliance, machinery, fixture, etc., so that said fixture, apparatus, machinery, riser, etc., may be cut out for repair, etc., with the least amount of interference or interruption to the rest of the building.

All valves shall be of same size as the pipe which they control.

All valves of a diameter of ½-inch or less shall be finished bronze globe valves and all valves of a larger diameter shall be gate valves.

All valves of a diameter of 2 inches or less shall be all bronze gate valves and all valves of a greater diameter shall be iron body bronze mounted gate valves.

All valves shall have wheel handles, unless otherwise specified, which shall in general be of same finish as that of valve to which they belong. When wheel handles are of iron they shall be painted black, unless otherwise specified.

All gate valves shall be of manufacture as may meet with the approval of the Architects and shall be of the solid wedge type arranged to hold the pressure on either side and shall be provided with a connecting nut between the plug and spindle. The connecting nut shall fit tightly the thread of the spindle and there shall be allowed enough play between the shoulder of the nut and the shoulder of the plug so that the plug may seat itself without subjecting the spindle to any undue strain. The connecting nuts shall be of bronze in both the bronze and iron body valves. All valves shall have double guides in the bodies and a single guide on the plug.

All valves of a diameter of 2 inches and less shall be all bronze with rough bodies and finished trimmings with solid bronze seats and shall be screw ends, inside screw. All bonnets of light pressure valves and of semi-spherical heavy pressure bronze valves shall be flat. All stuffing boxes shall be fitted with driving glands.

All valves of a diameter greater than 2 inches, except where shown or specified, shall be provided with bronze seats, screw ends, inside screw, which shall be heavy and shall be screwed into the body with heavy square threads. All valves shall have full bronze stuffing boxes with bolt follower. All plugs on valves up to 4½ inches shall be all bronze; those on valves 5 inches and larger shall be of iron with dovetails cast in the faces to take a bronze seat ring which shall be thoroughly rolled in. Plug seat rings shall not be poured in. All iron valves shall have bolt bonnet with an ample number of bolts to secure same.

All valves shall have bronze spindles.

All bronze used in both bronze and iron valves shall be best grade of steam bronze of a tensile strength of not less than 30,000 pounds per square inch for the bodies and not less than 35,000 pounds per square inch for the spindles, and shall have a composition as follows:

Copper	87 per cent.
Tin	7 per cent.
Lead	2 per cent.
Zinc	4 per cent.

All cast iron used shall be of best quality gray iron and castings shall be free from scoria, sand holes, air bubbles and other defects and imperfection. No plugging or other methods of stopping up holes or flaws will be allowed.

311. The shell of valves shall be of the following thicknesses and all valves shall not weigh less than the following:

Bronze Valves.

Light Pressure.			Heavy Pressure.	
Size of Valve.	Thickness of Shell.	Weight.	Thickness of Shell.	Weight.
¼ inch	3/32 inch	1¼ pounds	⅛ inch	3 pounds
⅜ inch	3/32 inch	1¼ pounds	⅛ inch	3 pounds
½ inch	3/32 inch	1½ pounds	⅛ inch	3½ pounds
¾ inch	3/32 inch	2½ pounds	9/64 inch	5 pounds
1 inch	3/32 inch	4 pounds	5/32 inch	7 pounds
1¼ inch	⅛ inch	5½ pounds	11/64 inch	8¾ pounds
1½ inch	⅛ inch	6¾ pounds	3/16 inch	12 pounds
2 inch	5/32 inch	10½ pounds	15/64 inch	19 pounds

Iron Valves.

Light Pressure.			Heavy Pressure.	
Size of Valve.	Thickness of Shell.	Weight.	Thickness of Shell.	Weight.
2½ inch	9/32 inch	29 pounds	7/16 inch	54 pounds
3 inch	5/16 inch	44 pounds	9/16 inch	90 pounds
3½ inch	11/32 inch	50 pounds	⅝ inch	105 pounds
4 inch	11/32 inch	77 pounds	21/32 inch	130 pounds
4½ inch	11/32 inch	86 pounds	23/32 inch	182 pounds
5 inch	⅜ inch	99 pounds	¾ inch	237 pounds
6 inch	⅜ inch	130 pounds	¾ inch	304 pounds
7 inch	7/16 inch	178 pounds	27/32 inch	401 pounds
8 inch	7/16 inch	239 pounds	27/32 inch	444 pounds
9 inch	15/32 inch	301 pounds	⅞ inch	
10 inch	½ inch	373 pounds	15/16 inch	
12 inch	9/16 inch	506 pounds	1⅛ inch	
14 inch	19/32 inch		1 7/32 inch	
15 inch	⅝ inch		1 5/16 inch	
16 inch	⅝ inch		1⅜ inch	

312. Valves with flange unions shall be set where shown on the drawings, where specified or as may be necessary.

All valves set in connection with nickel-plated pipe or fixtures shall be of same finish as the pipe which they control.

All valves on fire stand pipe for hose control, where specified, shall be heavy pattern nickel-plated brass, angle globe valves of design as may be approved by the Architects.

All heavy-pressure valves shall be factory tested to 500 pounds and light-pressure valves shall be factory tested to 300 pounds hydraulic pressure per square inch.

All valves shall be tested at building under same pressure as the pipe they control.

Valves, Tags and Charts.

313. All valves, whether installed under this or an earlier contract, except those about fixtures in toilet rooms, or those on the fire stand pipes in hall, etc., shall be provided with a large nickel-plated brass tag, on which shall be clearly stamped the function of each valve, also a designating number, 1 inch long. The tag shall be securely fastened to handle of valve by wire or chain and so set that number shall always hang vertical and out from valve. The Contractor, when work is finished, shall furnish and set at such points as the Architects may direct four large-sized typewritten lists of all tagged valves, showing their location, function and corresponding numbers; lists shall be framed, covered with glass and shall meet the approval of the Architects. All lettering and numbering on these tags shall be filled in with black paint.

Insulation.

314. All hot and circulation risers, pipes, mains, supplies and branches throughout the building, whether exposed or lying in walls, chases, flooring, furring, etc., except the short supply branches at fixtures, shall be insulated with best quality, 85 per cent. carbonate of magnesia sectional insulation, 1 inch thick, in sectional lengths.

All cold water pipes, mains, branches, fire mains and branches, etc., that may be situated in the basement, mezzanine and 4th story shall be insulated with solid wool felt, sectional insulation, tar lined, 1 inch thick.

All cold water pipes, mains, risers, supplies, branches, etc., which on account of their position or location may be exposed to freezing, in the opinion of the Architects, shall either be insulated with 3 inches of hair felt, put on in sections, 1 inch thick, with broken joints, or may be protected by a double thickness of wool felt sectional insulation, as the Architects may decide.

All sectional insulation shall be securely held in place by clamped lacquered brass bands, and where exposed or as may be directed by the Architects, shall be covered with a 10-ounce canvas duck jacket, neatly and thoroughly sewed on, and given two coats of fireproof paint, of color and make as may be approved by the Architects.

All hot and cold water pipes which on account of necessity may be buried in the earth shall be insulated, as may be approved by the Architects, with section unlined wood stave covering, well painted before being covered.

The cold water piping for the cooled drinking water system shall be insulated with Nonpareil cork covering 1½ inches thick, finished in mineral rubber, with molded fittings to correspond, all securely and properly held in place. Such pipes as may be exposed shall be covered with 10-ounce canvas duck, neatly and properly sewed on, and given two coats of fireproof paint.

Tests.

315. The Contractor shall make shop tests at factory of all pumps, tanks and other machinery, apparatus or appliance, etc., which may be operated under pressure when installed in the building, which tests shall be under same pressure as that to be employed in the building, and shall prove the above material, work, apparatus, machinery, etc., free from all defects of any kind, including those of material, construction or efficiency, and none of the said material, work, apparatus or machinery, etc., shall be delivered at the building until such tests have been made and proved satisfactory. These tests shall not relieve the Contractor from responsibility for defects disclosed by tests after installation in the building, the purpose of such factory tests being to avoid delays upon the work through delivery of defective material, work, apparatus, machinery, etc.

316. Upon the completion of the "roughing work" of the drainage system throughout, and after the connections of all lead bends, traps and branches and the insertion of all hand holes, covers and cleanouts, and immediately before connecting the various fixtures, all fixtures and other openings and ends in the system of soil, waste and vent pipes, rain leaders and rainwater drains, except the ends of the highest columns, at the roof, shall be securely closed with suitable screw plugs or other device, rendering the entire system completely watertight. The entire system of pipes from beyond the main house traps and other lowest points to the level of the highest pipes at the roof shall then be filled completely with water to the level of the highest pipes at the roof, and allowed to stand for ample time to permit a thorough inspection, during which time the work shall stand without leak or loss of water. All leaks or defects of any description shall be repaired and the tests repeated until the work stands without any leak or defect of any description, and to the entire satisfaction of the Architects. The above test shall in general be applied to all floor drainage work. The Architects may allow the drainage and vent stacks to be tested in 12-story lengths, in which case special Tucker testing plugs and connections shall be used. Soil, waste and vent pipes opening above the roofs rendered inaccessible by roof construction shall be provided with full-size plugged T fittings for testing, placed below roof in accessible places.

317. Upon final completion of the drainage system the Contractor shall apply the smoke test to the entire system, and shall provide a suitable number of smoke-testing machines, and shall connect and operate the same to completely circulate through and fill the entire system of pipes with smoke and maintain the same under pressure during tests. The tests shall be maintained for such periods of time as may be required to permit a thorough inspection. All leaks or defects of any description discovered by the test shall be repaired and made good, and the test repeated until the work stands without defects of any description, and to the entire satisfaction of the Architects.

318. All hot, cold, circulation and cooled drinking water mains, risers and branches, etc., with their valves, shall be filled with water and tested to a pressure of 500 pounds per square inch hydraulic pressure applied at some convenient point in cellar. Leaks or defects discovered by the tests or otherwise shall be made permanently secure by replacing defective materials or workmanship with sound and secure work, and the test repeated until the work is secure throughout and satisfactory to the Architects.

Any leak or defects discovered or exhibited after the pipes have been closed in shall be repaired and tested to the satisfaction of the Architects and the damage done to plaster, or other materials, or work of other trades, in order to locate and repair such leaks, shall be made good by the Contractor at his own expense and to the satisfaction of the Architects.

319. All gas piping shall be tested at least twice; one test before being covered in and one test after being covered in. The test shall be made with ether, air pump and mercury gauge and in accordance with the requirements of the Department of Water Supply, Gas and Electricity.

The hot-water supply heaters and system of piping and circulation shall be tested after installation, and shall demonstrate the efficiency of the plant and circulation system to supply hot water to all hot-water faucets quickly and to the satisfaction of the Architects, and shall demonstrate heating capacity of boilers and the thermostatic control.

Drainage System.

Definition of Terms.

320. The term "house sewer" is applied to that part of the main drain or sewer extending from a point two feet outside of the wall to its connection with the street sewer.

The term "house drain" is applied to that part of the main horizontal drain, and its branches, inside the walls of the building and extending to and connecting with the house sewer.

The term "soil pipe" is applied to any vertical line of pipe, extending through the roof, and receiving the discharge from one or more water closets, with or without other plumbing fixtures.

The term "waste pipe" is applied to any pipe extending through the roof and receiving the discharge from any fixture, except water closets.

Term "vent pipe" is applied to any special pipe, provided to ventilate the system of piping and to prevent trap syphonage and back pressure.

The term "rainwater drain" is applied to that part of the main horizontal rainwater pipes and branches extending from the "house drain" and connecting with the rain leaders, area drain and other pipes receiving rainwater.

The term "rain leader" is applied to any vertical or oblique line of pipe, receiving rainwater drainage from roof gutters or other surfaces, receiving rainwater.

Grade.

321. All horizontal drainage work shall be laid with a fall of at least ¼ inch to the foot.

Clean-outs.

322. Fittings for clean-outs shall be set and provided on all house drains and branches at frequent intervals, at the ends of all horizontal lines, at the base of all main, vertical soil and waste pipe, and where shown on the drawings, or as may be directed. All clean-outs on pipes under the floor shall be provided with access pits as hereinbefore described and of size as may be shown on the drawings. All clean-outs shall be same size as the pipe to which they belong, but not larger than 6 inches in diameter.

Clean-outs shall be of special heavy brass screw plugs, the ends of which shall be provided with heavy square nuts, threads shall be standard, tapered, iron pipe size. Clean-out plugs shall be screwed into heavy cast brass fittings, which have been screwed or calked into the fittings on the drainage pipe.

All running traps for house drains, areas, courts and floor drains, leaders, etc., shall have openings securely closed by means of heavy cast brass screw clean-out plugs.

Change of Directions, Offsets.

323. All change in direction or runs of pipe shall be made with Y-branches and 45-degree fittings. Special long T-Y-branches will be allowed on vertical lines only.

Rust bends, or short 90-degree fittings, will not be permitted on drainage or vent piping, where rust scale may accumulate. No bent or bowed pipe will be allowed.

The following work has been provided for under a previous contract:

House Sewers, etc.

House sewers, house traps, boiler blow-offs, fresh-air inlets, house drains, court and area drainage, floor drainage.

Sump Pump and Ejector.

324. The sump pump and ejector has been provided for under a previous contract, except as may be hereinafter specified.

Drainage for Machinery, Apparatus, etc.

325. All machinery, apparatus, fixtures, etc., installed under this contract shall be provided with drainage, when needed, which shall in general connect with the present floor drainage system, or as may be specified or shown.

Soil and Vent Stacks.

326. Where shown on the drawings there shall be run soil and vent stacks of standard galvanized wrought-iron pipe which shall extend up through the building and open above the roofs, as shown. The soil stacks shall connect with the house drain in 4th story as indicated.

Soil stacks Nos. 7 and 19 shall be 6 inches in diameter.

Accompanying each of the above soil stacks there shall be carried a 6-inch vent stack which shall run up through building and open above roof, as shown, and which shall branch back into soil stack at 5th story.

In addition to the above stacks the Contractor shall provide necessary waste lines from the lavatories, on the 2d and 3d stories, which are located too far from the present stacks to permit connecting with them, which shall extend to the mezzanine and there connect with the horizontal drainage system.

Outlets on Soil and Vent Stacks.

327. Long sweep 5-inch T-Y fittings shall be set in soil stacks Nos. 7 and 19 at each story near ceiling.

Drainage and Vent Connections for Fixtures.

328. From the plugged outlets on the present soil, waste and vent stacks, there shall be extended branch connections to the plumbing fixtures of not less than the following diameters:

	Waste.	Vent.
Water closets	4 inches	2 inches
Urinals	3 inches	2 inches
Lavatories	2 inches	2 inches
Slop sinks	2 and 3 inches	2 inches
Sinks	2 inches	2 inches

Where several fixtures unite into a common waste or vent branch, the size of such waste or vent branch shall be increased generally as shown on the drawings. The waste and vent branches from the office fixtures shall run as direct as possible, and shall be hidden from view. Where it may be necessary to extend the vent branches to the floor above to join the vent stacks, they shall be run in the mullions of sashes, and all work shall be carefully laid out with this end in view.

Acid Drain.

329. The Contractor shall provide and erect in location shown upon drawings from the termination of the present acid drain, at a point 1 foot above the 1st story level, a 4-inch vitrified tile acid drain.

The joints shall be made with picked oakum and run with hot tar.

The drain for its entire length shall be enclosed within a 10-inch diameter, No. 20 gauge galvanized sheet-iron casing, with overlapping joints. The space between outside of tile pipe and inside of casing shall be truly concentric and shall be carefully filled with concrete, well tamped.

The acid drain shall be supported at each floor level by special heavy wrought-iron supports, as may be approved, securely fastened to steel beams.

The acid drain shall terminate at a point 1 foot above the 26th story level, and shall be plugged and left ready for future extension.

Water Supply System.

330. House mains from street, fish traps and meters, filter plant, suction tank, pump and pump risers, house tanks, tank-down supplies, tank distributing system, hot water heaters and supplies, circulation system, expansion line and certain portions of the cooled drinking water piping have been provided for in an earlier contract, but the Contractor shall alter the present filter discharge and extend it to the present 4-inch drain from the court catch basin in the mezzanine, with check valve. Filter discharge shall be 4-inch standard galvanized wrought iron.

Additional Cooled Drinking Water Piping.

331. There shall be extended from the present drinking water mains in the 4th story, where shown ¾ inch high-pressure and ¾-inch low-pressure drinking water risers on stacks Nos. 7 and 19. The ¾-inch low-pressure risers shall be provided with ¾-story, where shown, ¾ inch high-pressure and ¾-inch low-pressure drinking water branches shall be extended to the different fixtures.

The ¾-inch high-pressure risers shall be provided with ¾-inch T's at floor level of each story, above the 13th story, from which branches shall be extended to the different fixtures.

From a point just below the highest outlet on each riser there shall be taken a ¾-inch return, which shall extend to the return mains in the 4th story.

Each branch from the mains in the 4th story shall be provided with controlling valve and valve drip, with emptying pipe, which shall connect with emptying header already installed.

The above piping shall be insulated as specified under Insulation.

Street Pressure Supply.

332. All machinery, apparatus, etc., of any description, that may be installed under this contract in the basement or mezzanine story requiring water connections shall be supplied with water from a valved branch from the street pressure main already installed.

Fire Protection System.

333. Fire pumps, siamese connections, fire lines, standpipes, connections with tanks, and hose and hose racks in the basement and mezzanine story, have been provided for under previous contract.

Fire Hose and Hose Racks.

334. From each of the plugged outlets on each story in the stair wells and where shown on the plan, there shall be extended a 2½-inch branch on which shall be placed a polish brass angle globe valve with outlet looking down. To valve outlet there shall be attached a heavy polished brass reducing nipple which shall support a heavy polished brass Howard, Yale or Royal swinging hose rack, with pins permanently attached to racks, or other hose rack equally good, as may meet with the approval of the Architects. To each hose rack in central stair wells there shall be attached 100 feet of 1½-inch "Eureka Underwriters Best," "Rendien," or New York Belting & Packing Co.'s unlined linen hose, in two 50-foot lengths, or other make of hose equally good that will meet with the approval of the Architects. Each length of hose shall be provided with heavy polished brass ring couplings, and long heavy polished brass nozzle. In the north and south stairwells there shall be 200 feet of hose in four lengths to each hose rack, of make as above specified.

Each length of hose shall be tested and proved satisfactory by the Fire Department under 150 pounds hydraulic pressure per square inch before being accepted.

From the present fire line in mezzanine story there shall be extended a 2½-inch branch to an additional outlet which shall be located in space just to the north of smoke flue. Outlet shall be provided with valve, rack, hose, etc., as above specified.

All the above fire protection system shall be in accordance with the rules and regulations of the Fire Department and the Board of Fire Underwriters.

Water Pipe and Valves.

335. All pipes used upon the entire water supply system of the building, including the fire system, all hot, cold and drinking water risers and all branches, shall be extra strong galvanized wrought-iron pipe, except as may be otherwise specified, and all valves used upon the above pipes shall be high-pressure valves as hereinbefore specified.

All water pipes above the 25th story, except fire lines and branches, which are to be extra strong, shall be standard galvanized wrought-iron pipe, with low-pressure valve, as hereinbefore specified.

Gauges.

Upon suitable Italian marble gauge board, located in the machinery room, which the Contractor shall provide, there shall be mounted three 12-inch nickelplated altitude gauges of approved make, which shall be adjusted to show height of water in tanks. The present gauge lines shall be extended to connect with gauges and provided with valves and drips.

Test and Operations.

336. The entire water supply system, including the pump risers to house tanks, the down supplies from house tanks, the fire system with branches, stand pipes, etc., the hot water system with all heaters, risers, returns, etc., all cold branches, risers, etc., shall be tested as hereinbefore specified.

Gas System.

337. The Contractor shall provide, set, and connect up complete, a system of gas piping for lighting the stairwells, halls and such other rooms and spaces as may be shown upon the drawings or as may be hereinafter specified.

Gas Mains, Meters, Risers, etc.

338. The gas main from street meter, and risers, adjoining each stairwell and stacks 2 and 22, with the piping from meter to the risers and all outlets in basement and mezzanine story have been provided for under a previous contract.

This Contractor shall extend in location shown the present 4-inch main from its present termination at a point 1 foot above the 1st story level, to a point 1 foot above the level of the 26th story, and leave end capped for future extension.

Gas Pipe and Fittings.

339. All gas piping shall be standard black wrought-iron pipe with malleable iron fittings unless otherwise specified as hereinbefore specified under Pipe and Fittings.

Gas Joints.

340. All joints shall be screw joints as hereinbefore specified under Joints, set up with red lead. No gasfitters' varnish or other similar substances will be allowed.

Change in Direction.

341. Any change in direction of runs of pipe shall be made with proper fittings, no bent or bowed pipe will be allowed.

Exposed Pipe and Fittings.

342. Where gas pipe and fittings may be unavoidably exposed on columns, marble, cabinet work, etc., said pipe and fittings shall be nickel-plated brass pipe and fittings.

Gas Outlets.

343. All gas outlets shall generally be set where shown upon the drawings, which location, however, is only approximate; their exact position can only be obtained from the Architects. All outlets shall be carefully centered in panels or other surfaces, etc., and care shall be taken to locate outlets where they will not conflict with trim of doors, windows, or other features, and all outlets not properly centered shall be reset by the Contractor at his own expense.

Outlet nipples shall be set truly perpendicular to walls or ceilings and shall project such exact distances from proposed finish of surfaces that fixtures may be properly set; all outlets shall be left properly capped.

All outlets not connected with gas fixtures or appliances shall be securely capped and covered with neat escutcheon of design and material approved by the Architects.

Where combination fixtures may be used, gas outlets shall be carefully adjusted to conform to the electrical outlets.

Gas Pipes to Drain.

344. All gas pipes, except drops, shall be laid to drain to risers and mains without depressions, bends or traps of any description. Drips, pipes and drainout plugs shall be provided where necessary.

Pipe Supports.

345. All risers, branches, outlets, centres, etc., shall be securely held in place upon walls, ceilings, etc., by means of strong galvanized-iron straps, securely screwed into strong, firmly-set cleats; when said risers, branches, etc., are set against iron columns, beams, etc., they shall be secured in place by means of said straps, screwed into tapped or drilled holes.

Runs of Pipe.

346. From risers branches shall be taken off to the different fixtures.

All risers shall be valved at their foot.

All runs of pipes shall be carried as direct as possible and upon tops of beams. Branches for side outlets shall be run up from below, and centre outlets shall have special branches from main runs.

Lights.

347. The number of lights for each fixture shall be as indicated on drawings. All individual light burners shall be considered as 5-foot burners.

Exposure to Freezing.

348. All gas piping shall be located where free from exposure to freezing; should

this be unavoidable, pipes shall be protected by insulation approved by the Architects.

Sizes of pipes, etc.

349. In general the sizes of gas piping shall be proportioned according to the following table:

Size of Pipe.	Greatest Length of Pipe Allowed.	Greatest Number of Burners. Allowed.
½-inch	25 feet	6
¾-inch	40 feet	20
1 -inch	60 feet	30
1¼-inch	100 feet	60
1½-inch	150 feet	100
2- inch	200 feet	200
2½-inch	300 feet	300
3- inch	450 feet	400
4- inch	600 feet	700

No pipe of a diameter less than ½ inch will be allowed. Centre branches for outlets for four lights or more shall be at least ¾ inch in diameter.

Plans of Piping.

350. The Contractor shall furnish the Architects and the Chief Engineer of Light and Power, for approval, drawing showing the proposed method for laying the gas piping, giving size of pipe and branches, etc.

Test.

The entire system of gas piping shall be tested as hereinbefore specified under "Tests."

Vacuum Cleaning System.

General Description.

351. This portion of the contract is to include the furnishing and installng of a complete vacuum cleaning system for the removal of dust and dirt from rugs, carpets, floors, stairs, furniture, shelves, walls and other fixtures and furnishings throughout the building, and for conveying said dust and dirt to suitable receptacles located in the basement, where indicated, and is to include all necessary cleaning tools, hose, piping, separators, exhausters, motor engine, valves, gauges, etc., to make a complete working system.

These specifications are intended to be drawn in such a manner as to allow all manufacturers of vacuum cleaners to submit propositions on their apparatus, therefore details which are peculiar to the various ssytems are not particularly specified, but such parts that are usual and necessary to the system installed shall be provided without extra charge. The Contractor shall comply with the conditions hereinafter mentioned and detailed drawings of all apparatus, connections, etc., shall be submitted to the Architects for their approval.

Vacuum Producers.

352. The Contractor shall provide and erect in basement in space shown, upon foundation, hereinbefore specified, vacuum producers of sufficient size to operatc simultaneously 24 sets of standard tools. The vacuum producer may be operated by either steam or electricity and shall consist of not less than three nor more than four units, which shall be so cross connected that any one, two, three of four units may be operated at one time.

The vacuum producers shall be of such capacity and design that they shall exhaust sufficient air to produce (1) a vacuum of not less than the equivalent of 2 inches of mercury at the junction point of the hose and the handle of the tool when cleaning carpet; (2) an exhaust of at least 60 cubic feet of fresh air per minute at the end of a 75-foot length of hose, with hose end left open to the air. The above conditions shall be maintained when 24 tools are in operation at one time.

The vacuum producers shall be provided with approved devices which shall automatically maintain a desired vacuum and shall regulate the power consumption, which shall be in proportion to the number of sweepers in operation, and shall be provided with sufficient and proper means of lubrication as may be approved or required by the Architects.

The vacuum producers shall be provided with all necessary guard to protect persons from injury from moving parts as may meet with the approval of the Architects, and all parts shall be accessible.

Heavy brass drip pans with edges turned up and well wired shall be provided under vacuum producers, where necessary, or when directed by the Architects, with drip to floor drainage.

Dust Separators.

353. There shall be provided one or more separators located on the air lines in basement near the vacuum producers. Each separator shall have an ample cubical contents as may be approved by the Architects. Separators shall be constructed with steel shells with cast iron heads and shall have cast iron bases and floor stands or other suitable and approved means of support.

Where two separators are used, the separator first receiving the dirt shall be a dry separator.

The connections and interior arrangement of the dry separator shall be such that no part of same will receive the direct impact of the dust and shall intercept not less than 90 per cent. of the dust entering same. No cloth bags or metal screens of any description will be permitted in this separator.

The separator receiving the air and remaining dust from above described separator may be either a wet or dry separator and shall be so constructed as to positively intercept all dust passing the first separator, and shall be installed if the vacuum producers are either of the reciprocating or rotary type.

If wet separator is used, means shall be provided in same, or as an attachment thereto, which will positively mix the air and water intercepting all dust and dirt entering the separator and thoroughly break up all bubbles and positively separate the water and dust from the air and prevent it entering the pump.

In event dry and wet tank separators are used suitable means shall be provided to automatically equalize the vacuum in these separators on shutting down exhauster.

All separators shall be provided with manholes, or handholes for access of interior for inspection and cleaning, and must also be provided with all necessary piping valves, etc., and the separator first receiving the dust shall be provided with a standard vacuum gauge.

Wet separator (if used) shall be connected to the water supply main as indicated, and waste pipe from separator must be run and properly connected with drain as indicated. The wet separator must also be provided with an approved device, through which the interior of separator may be observed.

Drainage Pump.

354. If a wet separator is installed there shall be provided and set upon suitable foundation as hereinbefore described a direct connected electric-driven 1½-inch centrifugal pump of Worthington, Quimby, Lawrence Machine Co., or other equally good make as may be approved, and with a capacity of 40 gallons per minute. Base of pump shall be extended to receive two-horsepower 240 volt, D. C. motor, which shall be either of General Electric, Westinghouse, Garwood Electric Co. or equally good make.

Pump shall have an 1½-inch valved suction from wet separator and an 1½-inch discharge, with check valve, which shall extend to the 4-inch drain from the court cesspool in the mezzanine.

Under the pump there shall be a heavy brass drip pan with drip to drain under basement floor.

Motor Panels.

355. If electric-operated vacuum producers are installed there shall be provided, where directed, a marble slab 1½ inches thick securely fastened by angle iron frame to wall, on which shall be mounted the main knife switch with fuses, separate switches and fuses for each motor, Sundh, Cuttler-Hammer, or other approved made solenoid starters for each motor, and such other electric devices as may be necessary.

Steam, Exhaust and Drip Connections, etc.

356. If steam-driven air sweeping apparatus is installed, the Contractor shall provide, erect and connect all steam, exhaust and drip piping for same complete, as follows:

The present 6-inch high pressure steam main near column No. 208 (or approximately 120 feet from the apparatus) shall be broken into and connected with the air-sweeping apparatus; also the present pump exhaust main near column No. 206 (or approximately 140 feet from the apparatus) shall be broken into and connected with the air-sweeping apparatus.

There shall be provided and connected a complete system of high pressure drips for the high pressure steam piping, providing proper outlet and connecting with present high pressure drip tank in pit near column No. 208, and there shall also be provided and connected all required drips from exhaust mains, branches, cylinders, etc., providing proper outlet and connecting with present low pressure drip tank in pit near column No. 221.

All drips shall be suitably trapped and each trap shall have a bypass with three valves. "Anderson," "Kieley," "Standard" or such equally good float traps (with gauge glasses and removable strainers) as will meet with the approval of the Architects. These shall be used for the entire drip system.

The pipe work must be erected in the most approved manner, at proper grades to secure easy and rapid circulation, to prevent all snapping noises and water hammering, and with proper provision for expansion and contraction.

All pipes subjected to boiler pressure shall be extra strong wrought iron pipe, with extra heavy gun-iron screw or flange fittings.

All drip and trap discharge piping shall be made up of extra strong wrought iron pipe with heavy fittings of best grade cast iron.

All exhaust pipes shall be standard guaranteed full-weight wrought-iron pipe with heavy flanged or screw fittings of best grade cast iron.

A valve shall be provided on the high-pressure main at the point of connection with present main; also on the branch to each apparatus near the main, as well as the steam, exhaust and drip valves at each apparatus.

All valves shall be of the "Chapman," "Crane," "Walworth" or such equally good manufacture as will meet the approval of the Architects. All valves on piping subjected to boiler pressure, also on all high-pressure drip piping, shall be of extra heavy pattern, designed to withstand and close tight under a working pressure of 250 pounds per square inch, and shall have bronze-faced plugs, removable bronze seat rings and bronze stuffing boxes. All valves not otherwise specified shall be of heavy make, good for 125 pounds working pressure.

All valves in exhaust pipes shall be gate valves.

All valves 2½ inches diameter and less shall be of steam metal with finished trimmings, and all valves exceeding 2½ inches diameter shall have iron bodies and brass trimmings.

All steam, exhaust and drip pipes shall be covered with one standard thickness 85 per cent. carbonate of magnesia sectional covering, canvas jacketed and banded in first-class manner. All fittings, valves, flanges, etc., on the above pipes shall be covered with molded canvas-jacketed 85 per cent. carbonate of magnesia sectional covering of same thickness as the covering on the pipes.

All pipe covering shall be encased with an extra covering of 10-ounce canvas, applied over the canvas-jacketed covering, drawn tight and neatly sewed on.

Any covering on the present steam piping, etc., damaged in making the above specified connections, shall be repaired and painted all new. Replaced work shall be painted two coats of cold-water paint, tinted to conform with the present work.

Pipe and Fittings.

357. All piping shall be standard black genuine wrought iron as hereinbefore specified. Ends of all pipe shall be reamed absolutely flush before being installed. All fittings shall be heavy black recessed malleable iron long turn drainage fittings.

Pipe Supports.

358. All pipes, risers, etc., shall be supported as hereinbefore specified.

Valves.

359. At points shown on the drawings there shall be provided heavy white metal inlet valves. These valves shall be of the flush self-closing hinged type of best quality and of such design as to insure tight closing of the valves. The valves shall not project more than ¾-inch from the wall or baseboard.

Hose.

360. There shall be furnished for each of the 24 sweepers that the plant is designed to operate, 75 feet of steel reinforced rubber suction hose not less than 1 inch in diameter to weigh not over 16 ounces per foot and that will not be injured by being stepped on. The hose shall be equipped with suitable coupling, with no metal exposed on either end to mar the floor or furniture, and as may be approved by Architects.

Cleaning Tools.

361. All floor tools shall be of the best construction with slots not less than ⅛-inch wide, and shall be of the swivel type, controllable by the operator by a simple turning movement of the handle.

All floor and wall handles shall have vacuum breakers and shall be of steel tubing nickel plated, and not less than 1 inch inside diameter. All cleaning tools shall be nickel-plated, except those made of aluminum, which shall be polished.

The following cleaning tools shall be furnished:

24 floor handles with inside diameter not less than 1 inch, equipped with elbow joint and shut-off valve.

24 wall handles in two sections not less than 1 inch inside diameter.

24 4-inch hand tools for upholstery.

24 12-inch carpet renovators with not less than 2¼ square inches area of slot, with renewable rubber fenders.

24. 15-inch or longer open-end bare floor tools with replaceable rubber composition or felt sides.

24 8-inch hand brushes and library tool.

24 4-inch round brushes.

24 15-inch wall brushes.

Description.

362. The exhaust from a point in the basement to and above the roof and a suction from a point in the basement to a point in the fourth story have been provided for in an earlier contract. All other piping shown or necessary shall be done under this contract. Risers Nos. 1, 2, 3, 4, 6, 7 and 8 shall be extended from 4th story to the 25th story with plugged outlets at each story as shown, except where valves are to be installed under this contract. Risers Nos. 1, 2, 3, 6, 7 and 8 shall drop from the 4th to 2nd story as shown with plugged outlets at each story, except where valves are to be installed under this contract. Riser No. 5 shall extend from the 4th story to the 29th story with plugged outlets on each story, except where valves are to be installed under this contract. There shall be provided all outlets in basement, mezzanine, 1st and 4th stories as shown.

The Contractor shall submit to the Architects for approval detailed drawings of all apparatus, sizes of piping, etc., which he proposes to install. The general arrangement of piping is indicated on the drawings and shall be followed as closely as possible.

All exposed vacuum piping, machines, motors, separators, etc., shall be painted as hereinbefore specified.

Vacuum Cleaning System Test.

363. Upon completion of the vacuum-cleaning system, it shall be tested in the presence of the Architects, and shall fulfill the following requirements:

(1) It shall exhaust not less than 60 cubic feet of free air per minute through each 75-foot length of hose, with hose end open to the air, whether one or the full complement of 24 lengths is attached to any 24 outlets in the building, providing not more than five outlets on any one riser are used.

(2) It shall maintain a vacuum of at least 2 inches at the junction point of the hose and the floor handle when the hose is in operation and the carpet being cleaned whether one tool or the full complement of 24 tools is in operation at one time and attached to any 24 outlets in the building, providing not more than five outlets on any one riser are used.

(3) The motors, if installed, shall be D. C. 240-volt type and shall be tested to determine the horse-power developed which shall not exceed 3⅛ horse-power per tool when the entire complement of 24 tools are in operation. No part of the motors shall rise in temperature to more than 45 degrees C. above the temperature of the surrounding atmosphere after running 5 hours under full load. At any point up to and including full load the motors shall not spark injuriously at commutator.

The entire vacuum-piping system shall be tested with air at 50 pounds pressure per square inch.

Cleaning Pipes, Machinery, Etc.

364. All pipes, machinery, apparatus, etc., upon completion shall be thoroughly cleaned from all grease, dirt or other material before being painted.

All nickel-plated pipes and work and finished metal work shall upon completion be thoroughly polished.

Protection Against Injury and from Freezing.

365. All pipes, fittings, machinery, fixtures, apparatus, etc., and all other parts of the work shall be protected against injury by proper boxing, casing, covering, etc., and from freezing during the construction of the building.

Tests.

366. All tests as hereinbefore specified shall be made in the presence of the Architects and the Commissioner or his representative.

Plumbing Fixtures.

367. The Contractor shall supply, set and connect complete in all respects and in perfect working order the fixtures of the manufacture as may be designated below, or fixtures of other manufacture equally as good, as may be approved by the Architects.

By fixtures is meant the water closets, urinals, lavatories, slop sinks and sinks, showers, etc.

Make of Fixtures.

368. All fixtures, trimming, accessories and toilet accessories shall be those of the J. L. Mott Iron Works, Meyer-Sniffen Company, Federal Huber Company, or equally good make, and which shall conform in design with the drawings and be in full accordance with the following description:

Waterclosets.

369. All water closets shall be of the syphon jet type with concealed jet; bottom outlet and rear inlet finishing against wall; closet shall weight not less than 57 pounds; each closet shall have 1½-inch brass inlet spud and locknut tapped to receive the tubing from flush valves; spud and locknut shall weigh not less than 4 ounces; outlet flange shall be brass for lead, with four 5/16-inch bolts with washers, acorn nuts and bolt caps; flanges shall weigh not less than 2 pounds. Each flange shall be furnished with molded asbestos packing. Back and base of closet shall be ground at right angles; seats shall be cellu-enamel finish, 1½ inches thick when finished and provided with concealed non-split metal expansion dowels; seat shall be attached to closet with ball pattern hinges to weigh not less than 2 pounds per set. Each closet shall be furnished with a rough brass adjustable flush valve with lever handle, with plunger attached to lever. The valve shall be placed back of the wall with 14-gauge bent outlet connection; 1¼-inch union inlet connection; all metal handle operating through sleeve through wall; complete valve, handle and wall thimble shall weigh not less than 23 pounds; all exposed parts in front of wall shall be white metal; parts back of wall shall be rough brass.

Each water closet shall rest upon a marble floor slab, which shall be provided as hereinbefore specified.

Each water closet shall waste through a 4-inch lead bend securely sweated to brass flange. Lead bend shall extend to a 4-inch by 2-inch Y fitting, from which fitting a 2-inch vent branch shall be taken.

Each water closet shall be provided with a 1¼-inch valved branch from the supply riser.

Urinals.

370. All urinals shall be of Imperial porcelain and shall weigh not less than 575 pounds each. Backs of urinals shall be ground true to fit against marble wainscot.

Each urinal shall be provided with all necessary fittings, etc., of weight and design as shown upon the drawings.

All metal work that may be exposed in front of wall shall be of White Metal.

All metal work back of wall shall be of rough brass.

Each urinal shall waste through a 3-inch branch, upon which shall be placed a 3-inch galvanized malleable iron trap, from just beyond which shall be taken a 2-inch vent.

Each urinal shall be supplied with a 1-inch valved branch from the supply riser.

Lavatory with Drinking Water Connections.

371. All lavatories with drinking water connections shall be of heavy vitreous ware, solid and without any hollow or built-up spaces in it, and shall measure about 24 inches from right to left, 20½ inches from front to back; thickness of ware through countersunk portion of slab shall be about 1 inch, around faucets and waste holes 1 inch, through bowl 1 inch to 1½ inches; at no point shall the ware be thinner than ⅝ inch to ¾ inch; weight of lavatory about 96 pounds; weight of standard 9 pounds. Two self-closing faucets, non-hammering, with china name plates with ejector principle, so that they will not require stuffing boxes; each faucet shall have ⅜-inch I. P. S. pipe connection from faucet to stop valve and ½-inch I. P. S. pipe to wall. Each supply pipe shall be furnished with key stop valve as per drawing. Each faucet and supply pipe to wall, with escutcheon, shall weigh 6 pounds. One similar faucet for ice water, with combination spout and waste, as shown, with supply pipe to wall and stop valve, shall weigh 10 pounds; 1½-inch trap to wall, with escutcheon and nipple, shall weigh 6 pounds; wall supports shall consist of an iron wall plate covered by china escutcheon with bolt through back of lavatory, and shall weigh 1¾ pounds.

All metal work, on top of lavatory, such as faucets, waste, etc., etc., shall be of White Metal.

All metal work under lavatory and in front of wall, such as trap, supplies, stop valve, escutcheons, etc., shall be of brass belted finish, and shall be painted two coats of white lead and linseed oil, followed by two coats of Ripolin white enamel paint, or other make of paint equally as good, as may be approved by the Architects.

Each lavatory shall have ¾-inch cold, ¾-inch hot and ½-inch drinking water supply, with 18-inch air chambers, buried in the wall, also 2-inch waste and vent branches, which shall be extended from the nearest risers.

Lavatory Without Drinking Water Connections.

372. All lavatories without drinking water connections shall be similar in all respects to the lavatory with drinking water connections, with the exception that there shall be no drinking water faucet, or branch supply for same.

Slop Sinks.

373. All slop sinks shall be solid vitreous ware, and shall weigh about 160 pounds. Thickness of same on sides and bottom 1½ inch to 1¾ inch with roll about 2¼ inches. Cast iron trap standard with adjustable base, so that the height of the sink can be raised or lowered. Self-closing faucets, four-ball handles and china name plates, arranged to close against pressure, with stop in shank of faucets.

The faucets, stop valves, etc., shall be of white metal. The trap standard, adjustable base, etc., shall be painted, two coats of white lead and linseed oil, followed by two coats of Ripolin white enamel paint, or other make of paint equally as good as may be approved by the Architects.

Each slop sink shall have ¾-inch cold and hot water supply, with 18-inch air chambers buried in wall, 3-inch waste where waste extends to stack which has outlet larger than 2 inches; a 2-inch waste where the outlet on stack is 2 inches, and a 2-inch vent branch from the nearest risers.

List of Fixtures.

374. The following list of fixtures are included in the Definite Contract and shall be furnished and set by the Contractor in complete working order:

	Water Closets.	Urinals.	Slop Sinks.	Lavatories.	Lavatories With Drinking Water.	Total.
1st Floor	..	..	2	..	..	2
2d Floor	10	7	2	3	..	22
3d Floor	10	5	2	3	..	20
4th Floor	8	3	2	4	2	19
5th Floor	20	10	2	4	..	36
6th Floor	21	10	2	4	..	37
7th Floor	21	10	2	4	..	37
8th Floor	21	10	2	4	..	37
9th Floor	21	10	2	4	..	37
10th Floor	21	10	2	4	..	37
11th Floor	21	10	2	4	..	37
12th Floor	21	10	2	4	..	37
13th Floor	21	10	2	4	..	37
14th Floor	11	5	2	2	..	20
15th Floor	21	10	2	4	..	37
16th Floor	21	10	2	4	..	37
17th Floor	21	10	2	4	..	37
18th Floor	21	10	2	4	..	37
19th Floor	21	10	2	4	..	37
20th Floor	21	10	2	4	..	37
21st Floor	19	10	2	4	..	35
22d Floor	19	10	2	4	..	35
23d Floor	19	10	2	4	..	35
24th Floor	19	5	2	5	..	31
25th Floor	12	5	2	2	..	21
26th Floor	..	..	..	2	..	2
Total	441	210	50	93	2	796

HEATING AND VENTILATING APPARATUS.

375. This portion of the specifications is intended to cover the completion of the entire heating apparatus of the building up to and including the 25th story, and the installation of the complete ventilating apparatus as shown on plans and hereinafter specified. The completion of the heating apparatus and the ventilating apparatus for the tower section will be included in a future contract.

The work of completing the heating apparatus consists mainly of the covering of all risers and radiator connections, etc., below the 26th floor, at present contracted for, as well as the permanent setting of all radiators below the 26th floor, the installation and connection of thermostats, etc., required to complete the temperature control system below the 26th floor, and certain specific additional work; all as shown on plans and as hereinafter specified.

In erecting the ventilating apparatus the Contractor shall connect with present outlets or break into and provide outlets in the present steam return and relief piping as indicated on the plans.

The Contractor shall, before making up his bid, inspect the premises for the better understanding of the conditions under which the work must be installed, and for estimating the incidental work required in connection with the installation.

Heating Apparatus.

High-pressure Steam, Return and Drip Pipes.

376. The Contractor shall provide outlets in the present high-pressure steam main and in the present auxiliary high-pressure steam main in the boiler room, and run a rising line up to the top of the building as indicated, terminating with valve and plugged outlet at the 26th floor level and connect this rising line with the outlets in the boiler room. He shall also furnish and erect a corresponding return riser starting with the plugged outlet fitting with valve at the 26th floor. This return shall run to and connect with the present high-pressure drip tank, providing suitable outlet on this drip tank as will be directed.

There shall be drips for the high-pressure steam pipes. The main drip line shall run to and connect with the present high-pressure drip tank, with trap of approved make and by-pass with three valves.

The riser to the upper floors shall have two valves on each branch in the basement near the respective mains.

Special provision for expansion and contraction shall be made in the rising lines so that there will be no lifting of appurtenances and fixtures and no undue strain on the pipe work under any condition.

Low-pressure Steam and Return Pipes.

377. The Contractor shall furnish and erect the low-pressure steam piping connecting the present low-pressure heating lines with all the tempering coils provided under this specification, and furnish and erect all return piping connecting the above tempering coils with the present return lines.

The several sections of each tempering coil shall be connected by headers for inside and outside groups, located so as to bring the valves on the individual sections in convenient position for hand control.

There shall be a low-pressure steam and a corresponding return riser for the future tempering coil for the tower. These rising lines shall connect with the mains in the 4th story as indicated, terminate with plugged outlets at the 26th floor, and have plugged outlets in the upper floors, as indicated and as directed.

All required material shall be furnished and all necessary alterations shall be made by the Contractor in the present steam, return and relief pipes in the 4th floor to permit the installation of the ventilating apparatus hereinafter specified. Suitable outlets in existing pipe lines for the connections to the new work shall be made, leaving the pipe work tight and in working order at the completion of the work.

Relief pipes on the horizontal mains shall be provided wherever required. All the individual relief pipes shall be connected into the separate mains and these mains run to and connect with the main lines as shown on plan, with all required valves, traps, etc., complete. The new relief mains must be run so that they will drain into the present mains by gravity.

The Contractor shall furnish and erect all radiator branches and other piping required and connect with present low-pressure system all radiators furnished under this specification, as well as all present radiators increased, decreased, or changed in location.

All radiators below the 26th story shall be disconnected when directed and reset and connected after the floors are finished, which radiators are at present contracted for to be temporarily connected. Any alterations shall be made in the present connections required to bring the radiators in the desired position in relation to partitions, finished floor level, and the trim of the rooms. Any nipples, fittings and other piping that may be required in connection with the setting of the radiators in their permanent location shall be furnished by the Contractor.

The Contractor shall take particular care when covering and encasing the radiator connections to leave them with proper pitch, and if, after the plant is in operation, any radiator does not circulate, due to trapped radiator connections, he shall at his own expense tear up the floors, make proper alterations in these defective connections and refinish the floors and leave same in as good condition as before they were disturbed.

The Contractor shall replace any tubes and floor-plates that may be damaged or lost in disconnecting and resetting the present radiators.

The Contractor shall, during construction, properly cap all steam, return and other pipe lines so as to prevent their being stopped up with sand, dirt or other material.

The individual relief pipes from mains, etc., shall be not less than one inch in diameter.

Notes as to Pipe Work.

378. The plans accompanying this specification indicate generally the size and directions which the main pipes are to follow, and while these sizes must not be decreased it shall be distinctly noted that the right is reserved to change runs and sizes of pipes to accommodate the conditions during the progress of the work.

All pipe work must be put up in the most approved manner, at proper grades to secure easy and rapid circulation, and to prevent all snapping noises and water hammering. The piping must be erected with proper provision for expansion and contraction.

All steam pipes subjected to boiler pressure, all high-pressure, return and trap discharge pipes, as well as all new radiator connections and nipples required, shall be extra strong wrought-iron pipe, with extra heavy gun-iron screw or flange fittings.

All low-pressure steam pipes, 6 inches in diameter and over, shall be standard guaranteed full weight steel pipe, with "Van-Stone" flanged ends, with rolled weldless steel flanges and heavy flange fittings of best grade cast iron.

Suitable fittings for the piping, etc., shall be cast from special patterns where required and where space conditions make such fittings necessary.

Flange faces of fittings shall be raised to meet the "Van-Stone" flanged ends of pipes.

All pipes not otherwise specified shall be standard guaranteed full weight wrought-iron pipe, with heavy flanged or screw fittings of best grade cast iron.

Bent pipes shall be used where indicated, and for turns and offsets wherever possible, thereby minimizing joints in the piping.

All pipes shall be bent while hot to proper shape and true curves, without decreasing the cross-sectional area or flattening. All "Van-Stone" and other flange joints shall be packed with corrugated copper or other approved gaskets, as directed, and bolts on flanges shall have standard hexagon nuts. Screw joints shall be made tight without caulking.

All piping specified above shall be of the standards defined by the National Tube Company. All wrought-iron pipe must be stamped with the manufacturer's name.

The ends of all pipes specified to have "Van-Stone" flange joints shall be upset before flanging, so that when faced on both sides the periphery of the turned-over edge will be of the same thickness as the original thickness of the pipe.

All fittings and flanges specified to be extra heavy shall be good for 250 pounds working pressure, and all other fittings and flanges shall be good for 125 pounds working pressure.

There shall be suitable supports, piers, clamps, hangers and stands with rollers, etc., and all piping shall be supported or suspended in a proper manner and as directed.

Valves, etc.

379. The Contractor shall supply all valves on the steam piping subjected to boiler pressure and all valves on the high-pressure drip pipes of the "Chapman," "Crane," "Walworth," or such equally good manufacture as will meet the approval of the Architects, of extra heavy pattern, designed to withstand and close tight under a working pressure of 250 pounds per square inch. These valves shall have bronze-faced plugs, removable bronze seat rings and bronze stuffing boxes.

All valves not otherwise specified shall be of heavy make of the "Chapman," "Crane," "Jenkin Bros.," or such equally good manufacture, as will meet the approval of the Architects.

All valves 2½ inches diameter and less shall be of steam metal with finished trimmings, and all valves exceeding 2½ inches diameter shall have iron bodies and brass trimmings, except as otherwise specified. All exposed valves not covered with non-conducting material shall have polished or nickel-plated trimmings.

The Contractor shall provide and connect all valves as indicated on plans or specified, and other valves required on mains and branches as directed; also valves on supply, return and drip connections for all apparatus provided for by this specification, as well as all apparatus specified to be connected.

There shall be a thermostatic diaphragm valve on each supply and each return branch for the inside and outside groups of the tempering coils; also a hand-control valve on each supply and a vacuum return valve on each return connection of the individual sections of the tempering coils.

There shall be a pet-cock and a drain-cock, in addition to the thermostatic and vacuum valves, on each individual section of the tempering coils; also pet-cocks and air valves on all other fixtures and appurtenances wherever required and as directed.

There shall be a thermostatic diaphragm valve on the supply end and a vacuum return valve on the return end of each new radiator and coil thermostatically controlled; and a hand-valve on the supply end and a vacuum return valve on the return end of each new radiator and coil not thermostatically controlled.

The diaphragm tops on the supply valves for the radiators on the 4th floor shall be replaced with hand-control bonnets; also all valves on the present radiators and coils, etc., that may be damaged shall be replaced, so that all of these valves will be left in first-class condition at the completion of the work.

Brass tags with names as well as with numbers lettered as directed shall be attached to all high-pressure and low-pressure steam and return valves, etc. All plates and tags shall be of brass, polished and lacquered, and all lettering and numbers shall be filled in with red paint.

Return Line Vacuum System.

380. The vacuum return line system shall be the Cryer, Warren-Webster, or equally good system as will meet the approval of the Architects, and be connected with the heating apparatus, and the tempering coils for fresh-air supply installed under this specification.

The Contractor shall furnish and connect the vacuum return valves for the new radiators and the tempering coils, and all thermostatic traps, valves, etc., required. Each vacuum return valve and trap shall be of suitable size and design to meet its special condition of work.

All the above apparatus and all special appliances in connection with the system required for installing and operating the same shall be secured from the manufacturers of the vacuum system selected.

The entire system of steam and return pipes must be run at proper grades and arranged to secure a dry return pipe system draining to the present return mains.

The attachment and adjustment of the vacuum return valves shall be done under the direction of the manufacturers, who shall also supervise the installation of their system and give the necessary instructions for the operation of the same. The Contractor shall keep the system in repair for two (2) years free of charge.

Radiators.

381. The Contractor shall furnish, set and connect all new radiators in the building, of sizes as marked on plans and of design and proportion to match the present radiators; he shall also increase or decrease the heating surfaces of the present radiators as designated on plans, and alter the connections to these radiators accordingly.

The plans indicate the number, the approximate location and height of these radiators, the heating surfaces, etc. The exact location, sizes and number of radiators shall be as directed.

The Contractor must measure the actual height of sills and spaces allotted the new and altered radiators, and proportion the dimensions of the radiators to the existing conditions.

The Contractor shall replace with new and perfect radiators, or parts of radiators, any radiator or part thereof that may be damaged or lost in disconnecting or resetting the radiators at present contracted for.

Lining of Screens for Radiators.

382. The Contractor shall provide linings of No. 22 gauge galvanized iron for the screens for radiators indicated on plans to be screened. Each lining shall form a box, completely enclosing the heating surface. The bottom, ends and back of box shall be fastened to the wall; the front shall be fastened to the front of screen and the top shall be fastened to the top. The linings shall connect with the register faces for air circulation in proper manner.

Any deflectors required shall be placed inside these linings; also division plates between the thermostatic diaphragm valves and the ends of the radiators made up of No. 24 gauge galvanized iron and ⅛-inch thick asbestos board.

Ventilating Apparatus.

383. The apparatus shown on plans provides for tempered fresh-air supply for the principal rooms on the 5th floor by means of two centrifugal fans located in the 4th story, and tempered fresh-air supply for various interior rooms adjacent to the central staircases throughout the building by means of two centrifugal fans, also located in the 4th story. It also provides exhaust ventilation for the principal rooms on the 5th floor by means of two centrifugal fans located in the 4th story as well as for the various other rooms, corridors, and the toilets throughout the building by means of six disc fans located on the upper floors.

Foundations.

384. The Contractor shall furnish and erect all steel and brick work required and build foundations for the tempering coils, the motors, the blowers, the exhausters and the disc fans. All brick work for the foundations shall be of best hard-burnt brick laid in cement mortar. The foundations for the blowers, the centrifugal exhausters and their motors, the foundations for the disc fans set in the shafts in horizontal position shall be capped with best quality hard-pine timbers, with beveled edges, set on cork insulation as indicated on plans, and fastened to the brick work or floor construction by means of anchor bolts with countersunk nuts. The blower and exhauster housings and steel frames for the disc fans shall be bolted to the foundations of floors, the anchor bolts extending up through the angle iron bases of the fan housings.

The foundations of the tempering coils and the foundations for the motors, set with their shafts in vertical position, shall be capped with fine-axed blue-stone 6 inches thick. All exposed brickwork of the foundations shall be faced with best American white-enameled brick, with bull-nosed brick on all corners.

All frames for fans and motor beds shall be securely framed together, and the frame for the motor bed shall in each case be firmly attached to the fan bed. All wood used in the construction of these frames shall be thoroughly fire-proofed.

Below the timber frames for the fans and below the blue-stone caps of the motor foundations there shall be two layers of best quality compressed cork, each layer 2 inches thick.

Centrifugal Fans.

385. The Contractor shall furnish and erect six steel-plate centrifugal multivane fans, as shown on plans.

Two fans for the fresh-tempered air supply to the principal rooms in the 5th story shall each have a blast-wheel 52½ inches in diameter in a housing 36¼ inches wide.

Two fans for the fresh-tempered air supply to the various interior rooms adjacent to the central staircases throughout the building shall each have a blast-wheel 46½ inches in diameter in a casing 32¼ inches wide.

Two fans for exhausting air from the principal rooms in the 5th story shall each have a blast-wheel 52½ inches in diameter in a housing 36¼ inches wide.

The fan wheels shall have curved blades, and the fans shall be enclosed in full steel-plate housings, with special base construction, designed with inlets and outlets to meet the space conditions, and must be properly braced to prevent vibration.

The fans shall be provided with steel shafts of ample diameter supported by bearings on cast iron pedestals located as indicated on plans. All bearings shall have self-oiling devices, with oil cups located in convenient positions.

The fan shafts shall connect with motors by means of flexible flange couplings.

Tempering Coils, Etc.

386. The Contractor shall furnish and erect four sets of tempering coils, as follows:

Two sets of coils in connection with the blowers for the principal rooms in the 5th story shall each have 1,460 sq. ft. heating surface, made up of 1¼-inch pipe in 6 two-row sections, 14½ ft. wide by 4 ft. high, making the coil 12 rows deep.

Two sets of coils in connection with the two blowers for the various interior rooms shall each have 980 sq. ft. of heating surface, made up of 1-inch pipe in 6 two-row sections, 10 ft. wide by 4 ft. high, making up the coil 12 rows deep.

The sections shall be of mitre pattern, and shall be made up of wrought-iron pipe of specified diameter screwed into separate cast-iron headers on the steam and return ends. These headers shall be of special length and arranged to secure a positive circulation of steam. The pipes shall be spaced on even centers and the steam and return headers shall be tapped as indicated on the plans.

All coils shall be encased in jackets of steel-plate, No. 10 gauge, enclosing the coils. Each tempering coil casing shall extend from the fresh-air chamber to the blower inlet. The jackets shall be made removable and shall be properly stiffened and braced to prevent vibration, and the ends connecting with the brickwork shall be fitted with angle-iron flanges.

The tempering coils and the inside of the casings shall be coated with special enamel as called for under "Bronzing and Painting."

387. The centrifugal fans, tempering and heating coils, casings and other steel and metal work shall be of B. F. Sturtevant Co.'s, the Massachusetts Fan Co.'s, the American Blower Co.'s or such equally good manufacture as will meet the approval of the Architects. The makers shall submit detailed plans of the apparatus and the foundations, supports, etc., for approval by the Architects, and shall erect or supervise the erection of the apparatus furnished by them.

Thermometers.

388. The Contractor shall provide and set in place eight accurate thermometers of large size and of special design. Four of the thermometers shall have extra long bulb for inserting into the fresh-air chamber through the brick wall, and the remaining four shall have suitable bulbs for inserting into the tempered air ducts.

Disc Fans.

389. The Contractor shall furnish and erect six Blackman type disc fans with circular frames, hangers, bearings, etc., and arranged for direct-connected electric motors.

The wheels of each exhaust fan shall be built up on two hubs with bores in perfect alignment; from one of these hubs, spokes shall radiate and connect with a tire, and from the other hub ribs shall radiate so as to reinforce and carry the curved edges of the blades. Both ribs and spokes shall be secured to blades so as to offer no impairment to the passage of air over the convex side of blade, and the blades shall be curved at the periphery to such form as shall force the air taken in at the inlet side of the fan away from the convex side of fan at an angle of about 30 degrees from its axis or line of fan shaft.

Each fan wheel shall be mounted in a circular wrought or cast-iron ring carrying three or more wrought-iron arms, which shall hold securely in alignment the self-oiling bearings in which the fan shaft rests.

Two fans for exhausting air from the various interior rooms shall each be 4 feet 6 inches in diameter.

One fan for exhausting air from the toilets, etc., adjoining northerly elevators, shall be 6 feet in diameter.

One fan for exhausting air from the toilets, etc., adjoining the southerly elevators, shall be 6 feet 6 inches in diameter.

Two fans for exhausting air from the corridors shall each be 6 feet in diameter.

Special steel frames for the two 6 feet disc fans for the corridors shall be constructed in substantial manner and securely anchored to the timber frames specified under "Foundations."

The disc fans shall be of such high grade manufacture as will meet the approval of the Architects. The makers shall submit detail plans of the apparatus for approval by the Architects and shall erect or supervise the erection of the apparatus furnished by them.

Electric Motors.

390. The Contractor shall furnish and erect twelve electric motors for driving the centrifugal and disc fans, as follows:

Two motors for driving the two 52½-inch centrifugal air supply fans for the principal rooms in the 5th story shall each develop 24 horsepower at a maximum speed of 265 revolutions per minute.

Two motors for driving the two 46½-inch centrifugal air supply fans for the various interior rooms shall each develop 16 horsepower at a maximum speed of 280 revolutions per minute.

Two motors for driving the two 52½-inch centrifugal exhaust fans for the principal rooms in the 5th story shall each develop 20 horsepower at a maximum speed of 250 revolutions per minute.

Two motors for driving the two 4 feet 6 inches disc exhaust fans for the various interior rooms shall each develop 6 horsepower at a maximum speed of 325 revolutions per minute.

Two motors for driving the two feet 0 inch disc exhaust fans for the corridors shall each develop 10 horsepower at a maximum speed of 275 revolutions per minute.

One motor for driving the 6 feet 0 inch disc exhaust fan for the toilets adjoining the northerly elevators shall develop 10 horsepower at a maximum speed of 250 revolutions per minute.

One motor for driving the 6 feet 6 inches exhaust fan for the toilets adjoining the southerly elevators shall develop 12 horsepower at a maximum speed of 225 revolutions per minute.

The motors shall be of the multipolar D.C. 240 volt type, built for field control, specially designed for the purpose and provided with flange couplings for connection with the fan shafts. All motors 10 horsepower and over shall be provided with commutating poles.

The motors shall be provided with Cutler-Hammer or equally good "field-control" speed regulating devices allowing at least six variations in speed, ranging from one-half to the full speeds given above.

No external resistance whatever shall be inserted in the armature circuit except for starting purposes. The commercial efficiency of the motors shall not vary more than 10 per cent. under its different speeds. After a continuous run of five hours at full load and maximum speed no part of the motors shall show a temperature increase exceeding 40 degrees C. above the room temperature, and shall not spark injuriously at the commutator.

The Contractor shall furnish all switches, terminal lugs of proper size, automatic safety devices, etc., required, everything erected complete and ready for wire connections. The controlling switches, etc., for the motors shall be located at convenient points, where directed.

An extra set of brushes shall be provided for each motor and everything to make the motors complete.

The motors shall connect with the fan shafts with suitable flange couplings. These couplings shall be of flexible type except where otherwise specifically directed.

The electric motors shall be of the Garwood Electric Co., General Electric, Westinghouse, or such equally good manufacture as will meet the approval of the Architects and the Chief Engineer of Light and Power.

Note.

391. All electric motors and all electric apparatus, etc., in connection with same, called for by this specification, must be installed in compliance with the requirements of the departments controlling these matters in The City and State of New York.

Any safety devices, etc., or other work and materials necessary to meet these requirements, shall be furnished without extra cost.

Galvanized Iron Ducts, Flues, etc.

392. The Contractor shall furnish and erect all galvanized iron ducts, flues, etc., as indicated on plans, consisting of:

Two systems of ducts and flues connecting the outlets of the two centrifugal air supply fans on the 4th floor with all air supply registers in the principal rooms, etc., on the 5th floor.

Two systems of ducts and flues connecting the outlets of the two centrifugal air supply fans on the 4th floor with all air supply registers in the various interior rooms in the central portion of the building.

Two systems of flues and ducts connecting all exhaust registers in the principal rooms, etc., on the 5th floor with the two centrifugal exhaust fans on the 4th floor.

Two systems of flues and ducts connecting all exhaust registers in the various interior rooms with the two disc exhaust fans located in the upper part of the building.

Two systems of flues and ducts connecting all exhaust registers in the toilets with the two disc exhaust fans located in upper part of the building.

Two systems of flues and ducts connecting all exhaust registers in the corridors with the disc exhaust fans located in the upper portion of the building.

The air discharge ducts from exhaust fans for principal rooms on the 5th floor connecting the outlets on these exhausters with the air shafts as indicated on the plans.

In addition to the above the Contractor shall furnish and erect all galvanized iron ducts and flues required to complete the ventilating apparatus at present contracted for, as indicated on plans and as hereinafter specified.

The exhaust flue from the subway toilets, at present terminated at the 4th floor level shall be extended and run up to and connected with the copper hood above roof, as indicated on plans.

The warm air and recirculating flues in the ground floor entrance halls, etc., at present contracted for, shall be extended up to 1st floor and connected with the warm air and recirculating registers in the entrance halls, etc.

The exhaust flues and ducts for the telephone rooms in the 1st floor, at present contracted for, shall be extended, as may be required, and connected with all exhaust registers in the telephone rooms as indicated on plans.

All the above ducts, flues, etc., whether run in brickwork, shafts, suspended ceilings, furring, etc., or exposed, shall be built of best bloom galvanized iron of the following gauges:

All ducts and flues having one dimension of 48 inches and over shall be of No. 20 gauge, braced with angle iron; 30 inches and over of No. 20 gauge; 12 inches and over of No. 22 gauge; smaller ducts shall be of No. 24 gauge.

All the ducts and flues specified above shall be built tight and in a strong and substantial manner, with slip joints presenting smooth surfaces on the inside and being neatly finished on the outside.

The ducts shall be suspended by galvanized iron hangers and braced where required. They must be designed with curves and bends, etc., as indicated on plans, so as to effect an easy flow of air. Wherever possible the inside radius of all curves on ducts and flues shall be not less than the width of same. Vertical flues shall have full size bends for connection with the horizontal ducts.

The Contractor must avoid the passing of steam and other pipes through ducts, and in other ways obstructing the proper run of same.

The Contractor shall provide and set adjustable slide dampers, as shown in detail on plan, in back of all registers and screens and provide dampers in the main ducts where directed. Deflectors for permanent adjustment and slide doors shall be provided where required.

All air supply and exhaust flues and ducts shall be provided with boxes, forming proper connections with registers. All register boxes and flues shall be closed with boards or sheet-iron caps during the course of construction.

The exact location, size and height of register boxes or air supply and exhaust flues and ducts shall be as directed. Generally the top and bottom registers shall be respectively near ceiling and near floor. Register boxes on ducts shall have perforations in back of same of proper area.

While the plans shall be adhered to as closely as possible and no reduction in cross sectional area permitted, the right is reserved to vary the run and dimensions of ducts and flues to accommodate structural conditions during the progress of the work. The Contractor shall make any changes in flues, register boxes, etc., as directed, after they are in place to suit the decoration and trim of the rooms.

Fresh Air Inlets, Rolling Shutters, Air Discharges, etc.

393. The Contractor shall furnish and set in each fresh-air inlet opening a No. 10 gauge copper wire screen, 1-inch mesh, supported on suitable and substantial channel frame made of solid bronze.

There shall be a rolling shutter for each tempering coil, and for each air discharge opening from the exhausters for the 5th floor, as shown on plans.

Each shutter shall cover the entire openings, and shall be built of No. 18 gauge galvanized iron, be balanced by springs and operated by hoists and hand chains. The shutters shall be enclosed in copper hoods properly fastened, and the ends of the shutters shall run in grooves made of angle iron.

Substantial steel-plate dampers, with frames and operating devices complete shall be in each main air supply and exhaust duct, where directed.

The air discharges for the six disc exhaust fans shall be of 30 oz. copper. Each air discharge shall be connected with the fan frame and extended to the desired height and capped with a protecting hood of 30 oz. copper, built substantially as indicated on plans; all properly supported and carefully anchored and braced.

There shall be an extension of 24 oz. copper for the flue forming the discharge from the future subway toilet exhaust fan. This extension shall start at the point where the galvanized iron discharge duct terminates, or about three feet below the roof level, and shall be run up to the desired height and capped with a protecting hood built of 24 oz. copper, substantially as shown on plans; all properly supported and carefully anchored and braced.

The flashings shall be of copper and the joints made water-tight around all air discharges and hoods passing through roofs.

Detail drawings of the above shutters, dampers and protecting hoods shall be submitted to the Architects for approval.

Air Filters.

394. The Contractor shall furnish and erect four sets of air filters, and build same into the fresh-air chambers.

The filters shall consist of substantial wooden frames of convenient size, with two layers of copper wire netting covered with cheesecloth of suitable thickness in between the two layers of netting. The air filters shall have filter areas as marked on plans. The woodwork shall be properly seasoned and protected against moisture by water-proof paint or varnish, as directed.

The wooden frames shall be supported by substantial framework of 20 oz. copper, stiffened by T-iron and anchored properly to floor and ceiling of fresh-air chambers, so as to resist the air pressure.

An extra set of wooden frames shall be furnished for each set of air filters, with copper wire netting and cheesecloth complete.

Registers, etc.

395. The Contractor shall furnish and set registers for fresh-air supply, exhaust, warm air and re-circulating flues, ducts, etc., as indicated on the plans, of sizes marked, or of equivalent area, as directed.

Register faces shall be furnished for circulation of air radiators enclosed in screens of area marked on plans.

Wherever the word "register" is used it is intended to include the register face, the body with dampers, operating devices, etc., complete; and wherever the words "register face" are used it is intended to include the register face with suitable frame for setting into the construction.

The registers and register faces shall be of the Tuttle & Bailey or such equally good manufacture as will meet the approval of the Architects. Unless otherwise specified they shall be of Architects' designs, or patterns approved by the Architects, of electro-bronze finish, nickel-plated, brass or white porcelain finish, as directed.

All registers and register faces in the elevator entrance halls, vestibules and stair landings below the 2d floor level, shall be of solid bronze and of special design. The bronze shall be composed of 90 per cent. copper, 7½ per cent. zinc and 2½ per cent. tin, or of such modification thereof as shall be necessary to give the color desired by the Architects. All ornamental or raised portions shall be finely chased and flat surfaces made smooth. All visible surfaces shall be highly polished or given such color as the Architects may direct, and be lacquered or not, as directed.

The frames for the register faces of the screened radiators specified to be of bronze shall be of special design and made of the same composition bronze as the register faces. The register faces shall be recessed into the frames and shall be hinged to the same and be provided with suitable fastening devices, or be screwed to the frames as may be directed.

The flanges of all registers shall be made air-tight. Valves on top registers shall be set in vertical position unless otherwise directed.

The Contractor shall furnish 145 polished and brass-trimmed hardwood poles of suitable length for operating the top registers, and also furnish and set a suitable hanger for each pole of brass and plated to match the hardware in the room. These hangers shall be placed in various stories where directed, and securely fastened to the walls and partitions. Each hanger shall have socket for receiving the hook-end of the pole, so arranged that the pole will be firmly held in position, as well as readily inserted and removed. Detail of these hangers shall be submitted for approval.

Thermostatic Circulation.

396. The Contractor shall supply all material and labor to complete the system of temperature regulation in connection with the heating apparatus at present contracted for below the 26th floor as well as for the control of the radiators and the tempering coils of the ventilating apparatus called for under this specification.

The completion of the present apparatus shall consist mainly in the installation of all thermostats listed on the plans, and all compressed-air piping (from the mains and vertical risers at present contracted for) to all thermostats above the basement, and to all diaphragm valves on the new tampering coils and on the heating apparatus at present contracted for and to all diaphragm valves required to complete the automatic heat control system below the 26th floor. He shall also furnish all new diaphragm valves for the new radiators and for the new tempering coils, and all other valves, piping, etc., required to complete the automatic heat control, as well as all themostats listed on the drawings, all required quick-opening relays, etc.

The Contractor shall also overhaul all diaphragm valves furnished under previous contracts and furnish new diaphragms, discs, seats, etc., in place of any that may be found defective.

The inside sections of the tempering coils shall be controlled by hot-air thermostats placed in the main tempered air ducts automatically operating the diaphragm valves on steam and return pipes, as will be required to maintain an even temperature of air in the duct.

The outside sections of the tempering coils shall be controlled by cold-air thermostats, located in the fresh-air chambers, automatically shutting off the diaphragm valves on steam and return pipes when the incoming air rises to a certain degree, and opening the valves when the fresh-air temperature drops below this degree, thus securing a continuous heating effect from these sections when required.

The direct heating surfaces in rooms shall be controlled by diaphragm valves on the steam ends of the radiators, etc., which shall open and close automatically, as will be required to maintain an even temperature in the rooms.

The diaphragm valves shall be of same pattern as those installed under the previous contract. The thermostats shall be of such type, design and finish as will meet the approval of the Architects. The thermostats, wherever desired and where directed by the Architects shall have supplementary hand-operating devices, by which means the automatic feature may be made non-operative, and the heat shut off completely by turning the indicator by hand.

The Contractor shall furnish and set special hand-operated switches, one for each individual section of the two indirect heating coils for the elevator entrance halls at present contracted for, and one for each of the radiators in these halls.

These switches shall be set in six special recessed cabinets (three in each elevator hall), built of solid bronze, having doors and door frames of such design, color and finish as will meet the approval of the Architects.

Each cabinet shall be provided with lock and key, and all switches shall be clearly engraved with name or number of the heat source which it controls.

The Contractor shall keep the system in repair for two years, free of charge.

Non-conducting Covering.

397. The Contractor shall cover all high-pressure steam piping furnished under this specification with one standard thickness magnesia sectional covering, canvas-jacketed and banded in first-class manner.

The free exhaust pipe and the vapor pipe from the 4th floor level to the roof shall be covered with one standard thickness magnesia sectional covering, canvas-jacketed and banded in first-class manner.

All low-pressure steam, return and relief piping above the basement in ceiling in all stories up to and including the 25th story shall be covered with one standard thickness magnesia sectional covering, canvas-jacketed and banded in first-class manner. This includes the covering of all of said piping installed under this specification, as well as all of said piping previously contracted for, with the exception of the covering of the mains in the pipe shaft below the 4th floor level, the covering of the return and relief risers below the 2nd floor level and the covering of the expansion loops in the 12th and 19th floors, which covering is included in the previous contract.

In other words, the above clause is intended to secure complete covering of all radiator connections below the 2nd floor, all the distributing piping in the 4th story and all risers and radiator connections, etc., from the 2nd to the 25th floors, inclusive, which constitutes all the low-pressure steam, return and relief piping below the 26th floor not already contracted for to be covered.

All fittings, valves, etc., on all pipes above specified to be covered, also all fittings on appurtenances to which these pipes connect shall be covered with molded magnesia covering of same thickness as the covering of the pipes.

All fittings, valves, traps, etc., on all pipes above specified to be covered, also all fittings on appurtenances to which these pipes connect shall be covered with molded magnesia covering of same thickness as the covering of the pipes.

The flanges on all pipes, fittings, valves, etc., above specified to be covered, shall be covered with removable flange coverings of same material and thickness as the covering on the pipes. All flange covering, large as well as small, and all covering of fittings and valves 6 inches in diameter and over, shall be made removable and replaceable, and shall be made up in sections over galvanized iron rings and wire netting in substantial manner, canvas-jacketed and properly banded.

The covering specified above shall be applied on all pipes, fittings, valves, flanges, etc., whether they are exposed or run in chases, furring, floors, shafts, cornices, suspended ceilings, etc.

All pipe covering, etc., above specified, whether exposed to view or not, shall be encased with an extra covering of 10-ounce canvas applied over the canvas-jacketed cover, drawn tight, neatly sewed on and banded, except that this extra covering of 10-ounce canvas may be omitted on the steam, return and relief risers and radiator connections concealed in furring and in floor construction.

The two present valve and distributing header boxes on the 24th floor level, including the doors, shall be lined, complete, with magnesia blocks 1 inch thick, cemented with magnesia cement and finished with hard finishing plaster. No. 24 gauge galvanized iron shall be over the door linings, turned over the edge of the covering and securely fastened to the steel plate doors.

The two masonry walls forming the smoke flue enclosure shall be covered, on the room sides, the entire height from the 2nd floor level to the ceiling of the 25th floor, with magnesia blocks 2 inches thick and expanded metal lath, all securely fastened and the magnesia blocks well cemented with magnesia cement, and the lathing so applied that it will form a suitable surface to receive the plastering.

398. The metal lath shall be No. 20 wire cloth, two and one-half meshes to the inch, reinforced with V-shaped stiffeners woven in every 7 inches; No. 24 gauge "A" grade Cleveland, Herringbone, or General expanded metal, or an equally good metal lath. All metal lath shall be galvanized, be given a lap of at least 2 inches, and be firmly wired at close intervals by No. 18 annealed lacing wire.

The housing of all fresh-air supply blowers, the casings of the tempering coils and the connections between the fresh-air and filter chambers and the tempering coils, and between the tempering coils and the blowers, shall be covered with magnesia blocks 1 inch thick, securely wired on, cemented, and encased with 10-ounce canvas, drawn tight and neatly sewed on.

All air supply ducts and flues in the 4th story, whether exposed or concealed, shall be covered with magnesia blocks 1 inch thick, securely wired on, cemented and encased with 10-ounce canvas, drawn tight and neatly sewed on.

The housings and inlet boxes on the two exhausters in the 4th story, also all exhaust ducts and flues in this story connecting with these exhaust fans, shall be covered with asbestos air-cell covering 1 inch thick, securely wired on, cemented and encased with 10-ounce canvass, drawn tight and neatly sewed on.

All air supply flues in the outside walls through 5th floor and 5th story shall be covered with magnesia blocks 1 inch thick, well cemented and held in place by angle-irons made of No. 20 gauge galvanized iron, applied on all four corners the entire height of the flues, and securely wired on.

Magnesia blocks ½ inch thick shall be used between the metal lining for all screens and recesses for radiators and the adjacent masonry, furring or woodwork as shown in detail on plans.

All magnesia specified above shall contain not less than 85 per cent. carbonate of magnesia.

399. The standard magnesia sectional pipe covering shall be of the following thickness:

½-inch pipe up to and including 2½-inch pipe, 1 inch thick.
3-inch pipe up to and including 5-inch pipe, 1 1/32 inches thick.
6-inch pipe up to and including 7-inch pipe, 1 1/16 inches thick.
8-inch pipe up to and including 10-inch pipe, 1¼ inches thick.
12-inch pipe and over, 1½ inches thick.

All non-conducting covering of the pipes, ducts, etc., specified above to be encased with canvas shall be wrapped with sheet asbestos applied between the covering and the outside canvas jacket. This wrapping shall be of sufficient thickness to form

a substantial and smooth backing for the canvas when the same is stretched over the non-conducting covering.

Bronzing and Painting.

400. The Contractor shall paint all pipes, fittings and headers of the tempering coils and enclosures for the same, the inside of the housings of all blower fans, the wheels, etc., of the blowers, with odorless, non-scaling paint or enamel, evenly applied, so as to cover completely all surfaces of the fans, coils and casings coming into contact with the air supply.

All exposed radiators, coils and exposed heating pipes above the basement shall be painted with one coat of best paint, and over the paint the radiators, coils and heating pipes shall be covered with best gold bronze or as directed.

Radiators in screens, as well as the lining of these screens, shall be painted two coats of dull black paint. The last coat shall be applied after the radiators are set and the screens cleaned out.

All motors, bearings and other machinery called for by this specification shall be primed and filled and painted with three coats of pure linseed oil and best white lead, tinted and striped as directed, rubbed and varnished to such finish as directed.

All fan frames, supports and other steelwork shall be painted with two coats of black asphaltum or paint of pure linseed oil tinted as directed.

All other exposed ironwork, galvanized ironwork, etc., shall be painted three coats of paint as directed. All appurtenances, pipes, housings, casings, ducts, etc., covered with non-conducting material, shall be painted one coat of approved paint prior to covering.

The canvas on all non-conducting covering on pipes, ducts, fan housings, tempering coil casings, etc., shall be painted two coats of cold-water paint, tinted as directed.

The exposed galvanized ironwork, also the inside of flues back of registers, and all work exposed to the atmosphere, shall be painted two coats of approved paint, tinted as directed.

All uncovered galvanized ironwork set in brickwork, furring, etc., shall be painted two coats of metallic paint before setting.

The names and destination of all coils, fans, main ducts and every branch duct to individual flues shall be painted on each in conspicuous places with large, distinct block letters as will be directed.

Cutting, Protection, etc.

401. The Contractor shall do all cutting of floors, walls, partitions, etc., necessitated by the installation of the plant as per specifications.

Where new piping and connections pass through floors, walls or partitions, iron pipe sleeves, with flanges and suitable plates, etc., shall be inserted. All tubes, plates, etc., shall be well secured and fitted in the neatest and most approved manner.

All present and new steam and return radiator connections and transfers below floors in all stories below the 26th floor shall be encased in suitable No. 10 gauge black iron casings, carefully fitted over the covering of the pipes and applied in a first-class manner, so as to form a solid bed for the floor material.

Wherever possible this casing shall be applied over each pipe individually. In no case shall the casing exceed a width of 10 inches.

General.

402. The work throughout shall be done in the best and most workmanlike manner, to the entire satisfaction of the Architects, who will interpret the meaning of plans and specifications and pass judgment on the work, with power to reject all materials and work which do not conform to the true intent and meaning of same.

The Contractor shall comply with all requirements of the Departments controlling building construction, equipment and operation in The City and State of New York, supplying anything in labor and material required to meet these laws without extra cost.

ELECTRICAL EQUIPMENT.

403. This section of the specifications includes the following:

1. Electric Light and Power Wiring.
2. Interconnection System.
3. Elevator Signal System.
4. Main Switchboard.

Scope.

404. The electrical equipment work under this contract shall be subdivided as follows:

1. The definite contract shall include the installing of certain portions of the electrical equipment which are shown and scheduled in detail on the various plans of the electrical equipment. The portions of the electrical equipment to be included in the Definite Contract comprise the following:

(a) Change to existing switchboard on mezzanine floor.
(b) Two new power feeders extending between service switchboard on mezzanine floor and main switchboard at 4th floor.
(c) Main switchboard at 4th floor.
(d) Switchboard pull box.
(e) Complete feeder system as indicated on Sheet No. 1050-E.
(f) Complete interconnection system as indicated on Sheet No. 1051-E.
(g) Complete electric circuit work outlets, telephone conduits, etc., for the 1st floor, as indicated on Sheet No. 1001-E.
(h) All electric circuit work outlets., etc., for the 4th floor, as indicated on Sheet No. 1004-E.
(i) All circuit work, outlets, etc., for the elevator, halls, toilets, stairs, toilet passage, etc., as indicated inside the hatched walls on Sheet No. 1005-E.
(j) Thirty-two electric car lighting cables and all the circuit work, outlets, etc., for same, as indicated on Sheet No. 1005-E.
(k) Thirty-eight special windlasses and automatic cutouts, with the necessary cables, etc., for the 38 ceiling fixtures in the main concourse at 1st floor.
(l) All the necessary circuit work, outlets, etc., required for the central stair outlets in the tower.
(m) Complete fire-alarm system.
(n) Complete watchman's detector system.
(o) Complete elevator signal system.

The work mentioned above shall include all the labor and materials for the entire installation and completion of said work.

2. All other work required under this branch of the specification shall be furnished under the contract units as specified hereinafter. For the guidance of the Contractor, the estimated amounts of the various kinds of work and materials required are given hereinbelow. These figures are approximate and are given merely as a basis to assist the Contractor in determining the proper unit price for the various portions of the work.

The work to be installed under the contract units shall include the following:

(a) All circuit work, outlets, etc., that will be required for the various offices and corridors on the 2nd to 25th floors, not including the 4th floor.
(b) Cutout panels I, J. K, L, M, N, O, P, Q and R, as indicated on Sheet No. 1005-E, and scheduled on Sheet No. 1054-E, from the 2nd to 25th floors, inclusive.
(c) Floor mains I, J, K, L, M, N, O, P, Q and R, as listed on Sheet No. 1052-E, from the 2nd to 25th floors, inclusive.
(d) Telephone and Interconnection cabinets, Nos. 1 to 12, inclusive, as indicated on Sheet No. 1055-E, and scheduled on Sheet No. 1055-E, from the 2nd to 25th floors.
(e) Floor cables, Nos. 1 to 12, inclusive, as scheduled on Sheet No. 1053-E, from the 2nd to 25th floors, inclusive.
(f) All service boxes as indicated on Sheet Nos. 1005-E and 1055-E.
(g) All service lines, outlets, empty conduits, etc., that will be required for push-button calls, telephones, time clocks, messenger calls, etc., for the various offices on the 2nd to 25th floors, inclusive.

SECTION 1. ELECTRIC LIGHT AND POWER WIRING.

Leakage and Insulation.

405. The insulation of the circuit work from the feeding point to the outlet shall be made sufficiently perfect, in any branch or circuit, under full-current pressure and load, to prevent a leakage exceeding one two hundred thousandth part of the current in said circuit or branch.

Definite Locations.

406. The locations indicated on the wiring plans are intended to be approximately correct, but are understood to be subject to such revision as may be found necessary or desirable at the time that the circuit work is installed, in consequence of increase or reduction of the number of outlets, or in order to meet difficulties, or to simplify the work, or for other legitimate causes.

The Contractor shall, in all cases, examine the Architect's plans at the building, to ascertain whether any changes have been made in the building plans since electrical plans were completed. He shall exercise particular caution with reference to the location of cut-out cabinets, outlets, switches, etc., and shall have the precise and definite locations approved by the Architects.

The location of all outlets in rooms which are subject to special interior treatment or decoration is shown for the purpose of obtaining a contract and in order that the work may proceed. No circuits shall be run to outlets in such rooms until the plans are submitted to the Architects, and it has been decided whether these outlets will agree with the interior and decorative drawings of the room. This course must be pursued unless the Contractor is certain that the outlets are not subject to rearrangement.

Feeders and Mains.

407. The feeder sheet shows, diagrammatically, the general arrangement of the feeders and mains, their points of origin and termination, their relation to, and connection with, the various cut-out groups, etc.

The feeder sheet is not intended to indicate the exact location, heights, etc., of cut-outs, nor the exact course of the feeders and mains. The schedules on this sheet give for each feeder and main the approximate length of each, the load of amperes, the loss of potential, and the minimum sizes of conductor and conduit allowable.

The lengths of conductors given in the schedules are estimated from the plans by scale measurements, with allowance for bends, terminals, etc.

The Contractor must verify all lengths by actual measurements made at the building at the earliest possible date, and all discrepancies must be reported to the Architects.

The Contractor shall provide and install conductors of the exact and precise length requisite for each case.

Branch Circuits.

408. The branch circuit conductors shall be of No. 14 B. & S. gauge, unless otherwise indicated on the plans.

Tube Conduits.

Rigid (unlined) conduits shall be used throughout. A single conduit shall be used for each pair or set of conductors constituting a feeder, main or branch circuit, unless otherwise indicated on the plans.

Kind of Conduit.

409. Conduits shall be enameled inside and galvanized outside. The interior enameled surface shall be smooth and uniform, so as to allow the conductors to be easily inserted or withdrawn. The outside galvanized surface shall be heavy, and over the galvanizing shall be applied an additional coat of approved flexible enamel, so as to afford additional protection. Conduits of the American Circular Loom or Safety Armorite Company's manufacture, having an interior enameled surface and an outer galvanized surface, with an additional coat of enamel, will be approved. Samples of the conduit must, however, be submitted for approval.

Sizes of Conduits.

410. The conduits shall be of sufficient size to permit the wires to be at any time withdrawn or reinserted without damage to either the wires or the circuits.

For branch circuits the conduits shall have a clear internal diameter of not less than 5/8 inch.

For feeders and mains the minimum sizes (internal) clear diameter of conduit which the Contractor will be allowed to use are given in the schedule of data on the feeder sheet.

Arrangement of Conduits.

411. The conduits shall generally be run concealed, under or between floors, in walls, partitions, chaces, behind lathing, furring, etc.

The conduits shall be set exposed only at certain places, when such exposed conduit work is for good reason permissible or preferable. All exposed conduits shall be painted two coats of approved color.

No deviations from the plans shall be made without due approval and permission.

The arrangement of conduits shall be, in general, subject to the direction and approval of the Architects and the Chief Engineer of Light and Power, in every way and detail; and all modifications that may be found necessary or desirable to overcome difficulties, or to meet unusual or unexpected conditions, must be submitted to and have the approval of the Architects and the Chief Engineer of Light and Power before being carried out.

Conduit Joints.

412. The Contractor shall use special threaded couplings designed for the purpose.

All joints shall be thoroughly leaded in an approved manner, the same as in the case of water piping, and must be screwed up tight.

Conduit Bends.

413. All bends, offsets, etc., in the smaller sizes of conduits may be made by the Contractor, provided a suitable approved bending machine is used for this purpose. In the case of the larger sizes of conduits, the elbows or offsets made by the manufacturer must be used, unless special permission is obtained from the Architects and the Chief Engineer of Light and Power to make the bends at the building.

Conduit Ends.

414. The Contractor shall install an approved bushing and lock nut at the end of each conduit, at cut-out cabinets and at all outlets.

The Contractor shall also plug each conduit end with cork or wooden plugs, as soon as the conduit is installed, to prevent its filling with plaster, dust, etc., and to avoid condensation therein.

Outlets.

415. The Contractor shall provide and set a galvanized or Sherardized iron outlet box for every electric light, and for every local switch outlet. Said outlet box shall be of approved design and construction, of form and dimensions suited and adapted in every instance to its special location, the kind of fixture to be used, the number and arrangement of conduits, gas pipes, etc., connecting therewith.

For electric light outlets intended to be used with drop cord rosettes, wall sockets, receptacle sockets, electric heating devices, etc., there shall be provided iron outlet boxes, having special devices and means suitable for the attachment of the said rosette, wall socket or other form of socket. Samples of outlet boxes must be submitted before the same are installed.

Fixture Supports.

416. The Contractor shall provide and install at each lighting fixture outlet an approved fixture support.

At combination outlets the gas pipe may be utilized for the fixture support.

At electric outlets a special supporting device will be required, as follows:

For ceiling and chandelier fixtures the support may consist of iron pipe of approved diameter, suitably fastened and secured to the framework of the ceiling, or to the floor beams, arches, etc., of the floor above, by a tee or angle affixed to said pipe.

For brackets or side fixtures the support shall consist of a special flanged metal stem attached to the outlet box and having a threaded end of proper length and otherwise suitable for holding the fixture insulating joint.

The flanged portion shall have a broad base, and it shall be securely attached to the outlet box at not less than three points.

Cut-out Cabinets.

417. All cut-out cabinets required in connection with this contract shall be provided by the Contractor.

Each cut-out cabinet shall consist of a metal box of adequate form and dimensions with space for a distinct cut-out compartment for each separate cut-out panel to be installed thereat, and with a free space of from 5 to 6 inches forming a connection compartment, around on all four sides of each cut-out panel. The cut-out cabinets shall be made sufficiently deep to allow a clear space of one-quarter (1/4) inch between the back of the slate panel and the iron box.

The metal box shall be made in one piece of sheet steel reinforced at the corners, and at the front portion of the box with angle iron not less than one inch by one inch by one eighth inch (1" x 1" x 1/8").

Where the metal boxes are larger than twenty (20) square feet in area, they must be reinforced at the back by channels of proper dimensions and suitably arranged so as to provide the necessary stiffness and to prevent the box from buckling.

The Contractor shall provide for each box a steel cover, having separate hinged doors for each cabinet and switch compartment. For very large boxes, special permission will be given to subdivide the cover into small sections. This cover shall be secured in position in an approved manner.

All doors shall be provided with approved flush catches, and with stops at top and bottom of doors; for doors larger than eight square feet the Contractor shall provide approved bolts at top and bottom.

The Contractor shall place on the door of each cut-out panel an approved directory frame of adequate and approved dimensions, in each case. The Contractor's drawings must show the dimensions of the directory frame for each cut-out panel and shall be approved for each case.

In the push button compartment the Contractor shall provide a directory frame for the switches located inside said compartment. The switch plates shall be engraved as directed in all cases. All engraving shall be filled with an approved black enamel.

The Contractor shall place on the inside of each cabinet door, above the directory frame, an approved name plate with the name of the corresponding cut-out panel and the sizes of feeders or mains connecting therewith.

The Contractor shall provide and install on the inside of the metal door of each cut-out group a pocket of fibre, or other approved material, to serve as a receptacle for the storage of enclosed and link fuses to be used for replacing blown fuses.

After the rough boxes have been installed and before the wires have been pulled in, the Contractor shall thoroughly clean the inside of the boxes and paint them with approved protective paint.

The Contractor must furnish the Architects and the Chief Engineer of Light and Power, a schedule of approximate sizes of the various cut-out boxes to be installed under this contract. Such schedule must be furnished 60 days before installing said cut-out boxes.

As soon as possible the Contractor shall submit to the Architects and the Chief Engineer of Light and Power, for approval, drawings giving the dimensions and showing the arrangement of every cut-out cabinet to be furnished under this contract.

Cut-Out Panels.

418. The Contractor shall provide and install the necessary cut-outs at the points indicated.

All cut-outs shall be of the panel type, with metal busbars, connecting bars, etc., mounted on slate.

All cut-out groups located at the same points shall be placed in the same cabinet, as indicated by the fine dotted lines and enclosing the corresponding symbols on the feeder sheet.

In some cases two or more cut-out panels may be installed on the same cut-out panel.

Each panel shall be encased when in proper position in the cut-out cabinet by slabs of slate not less than 5/8 inch thick, of width equal to the full depth of the cabinet and securely fastened to the bottom of the cut-out cabinet by special angle-iron supports, or in other approved substantial manner.

The slate slabs shall be fitted together neatly and closely and so arranged that they may be removed without disturbing the wires.

Holes shall be drilled in the slabs, one for each individual conductor, of suitable size therefor, and located opposite the particular cut-out connector to which it corresponds.

Each cut-out panel shall be made of approved slate not less than 7/8 inch thick, of proper adequate form and dimensions for its purpose, with face finished in approved manner and having mounted thereon the busbars, connecting bars, and all other cut-out appliances.

The number of joints between the main bus-bars and cross bus-bars must be reduced to a minimum, and all unnecessary joints must be avoided. Two cross bars must be provided for each pair of branch circuits. All main bus-bars and cross bars must be of copper having a conductivity of not less than 98 per cent.

All clips and hinge blades must be set in slots cut by a milling machine. All blades must be sweated, pinned and riveted by not less than two pins driven all the way through the base.

All lugs shall be cut from pure copper (no stamped or cast lugs will be allowed).

All lugs shall be secured to base by means of two screws of approved kind, finish and size in an approved manner.

Bases for all spring fuse clips must be milled down at least 1/32 of an inch forming a square shoulder, thereby preventing spring clips from turning.

Special care must be taken in mounting the busbars, crossbars, switches, fuses, etc., so as to obtain perfect alignment.

All panels must be protected in an approved manner from dirt and plaster at all times before the trims have been installed. The Contractor must submit detailed drawings to the Architects and the Chief Engineer of Light and Power of all cut-out panels within (20) days after the award of the wiring contract; said drawings must be approved before the outside rough boxes for the panels are made. A complete set of blue prints of the approved panel drawings shall be filed in the office of the Architects, of the Chief Engineer of Light and Power, and of the Commissioner.

All fuse connection for branch circuits shall be made by means of suitable approved enclosed fuses. All feeders and main fuse connections shall be made by link fuses. Each branch circuit shall be controlled by an approved knife switch. The clips and blades of the knife switch must be of sufficient length to prevent the possibility of their getting out of alignment or becoming loose or bent by the operation of the switches.

Each cut-out panel shall be provided with suitable approved means of detecting and locating blown fuses, open circuits, etc. This may consist of a lamp outfit, including a receptacle, with suitable approved plug contacts to be so arranged as to make it possible to utilize the feeder connections.

Schedules.

419. The Contractor shall provide suitable means of indicating at each cut-out connection the circuit corresponding thereto by stamping the circuit number or name letter upon the cut-out busbars.

He shall provide and place in each cut-out box, on the inside of the door, by means of an approved metal frame, a suitable index (see Cut-Out Cabinets) made out on an approved blank, giving the name of the feeder or main supplying the group or groups of cut-outs in said cut-out cabinet, and of every main or branch circuit originating at said cut-out or cut-outs; also the section or portion of the building supplied thereby; also the proper size or capacity of fuse required therefor.

The Contractor shall also provide and place in each cut-out cabinet, or at other convenient point, if so directed by the Architects, a diagram of the circuit connections.

Fuses.

420. The Contractor shall provide all the necessary fuses and make all the necessary connections between the circuits and cut-outs.

An entire duplicate set of fuses shall be furnished for each and every cut-out connection. This duplicate set shall be in addition to the fuses used up to the time of the acceptance of the contract.

For lighting circuits all fuses not exceeding 25 amperes capacity shall be of the enclosed type, D. W., or other equally good approved make. Fuses of greater than 25 amperes capacity shall be of the link type.

For power circuits fuses shall be of the open type.

Switches.

421. The Contractor shall provide and set at the place designated on the plans as directed the various switches used; the details of their installation shall be subject to the approval of the Architects and the Chief Engineer of Light and Power.

All switches shall be of first-class make. Samples shall be submitted for approval.

Knife Switches.

422. Knife switches shall be used for all capacities exceeding 15 amperes for circuits, cut-out groups, etc., requiring to be controlled at cut-outs, and at switch cabinets or compartments.

All knife switches shall be made of pure rolled copper.

The designs, proportions, workmanship and finish shall be, in general, the same as for high-class switchboard work, and shall be as approved for each type of knife switch.

The current density shall not exceed the following values: In all conducting parts, 800 amperes per square inch. In stationary contact surfaces, 100 amperes per square inch. In movable contact surfaces, 60 amperes per square inch.

Fuse Block and Fuses.

423. One fuse block and fuse for each pole of the knife switch shall be provided for all switches controlling cut-out groups, and also wherever the same shall be requisite for the protection of the circuits controlled.

The fuses shall, so far as possible, be installed and connected so as to be on the dead side of the circuit when the switch is open.

All knife switches installed in switch compartments or other places than at cut-out panels, shall be mounted on an approved switch panel of slate, of proper form and dimensions and of similar finish to the cut-out panels.

Flush Switches.

424. The flush switches shall be of the double-pole push-button type, with flush face plate of approved make, material and finish.

Where three or more switches are grouped together in a "gang," a single face plate may be used for not more than three switches. Where more than three switches are located at one point, the face plate may be used in multiple of three.

The push-button switches to be provided under this Specification shall be not more than 1½ inches deeper, and shall be of the Metropolitan, General Electric, or equally good approved detachable type.

Switch Compartments.

425. All switches installed in the switch compartment of cut-out cabinets or in special switch cabinets shall be properly mounted and supported in position on special metal frame of approved design and construction.

The Contractor shall provide a schedule of switches in all switch compartments which shall be mounted in an approved manner in metal frame with glass cover.

Location.

426. The Contractor is specially notified that the location given or indicated in the Specifications, or on the Plans, for the local switches, is subject to modification. In the case of local switches to be set at or near the doors, the definite location will depend upon and may be influenced by changes in the location, arrangement, or the swing of the door. The Contractor shall duly ascertain and note any and all such changes.

No local switch shall be installed until the definite location of the same has been duly determined or approved by the Architects.

Wires.

427. All wires shall be of refined copper of the highest commercial conductivity, properly tinned, and provided with approved insulation, which must comply with the mechanical and electrical tests named hereinbelow. Conductors of No. 14 to No. 10 B. & S. G. shall be solid, but conductors of larger size shall be stranded. The number and size of strands shall be as approved by the Architects. Conductors of No. 14 B. & S. G. to 1,000,000 c.m. shall have a thickness of rubber wall, such as required by the National Electric Code. Conductors of 1,500,000 to 2,000,000 c.m. shall have not less than 5/32-inch rubber wall.

The insulation must be elastic, homogenous, and shall have a tensile strength of not less than 700 pounds per square inch.

Mechanical Tests.

428. Samples of vulcanized rubber compound used on the conductors to be furnished under this contract, must be submitted to the following physical tests. Samples shall be cut from conductors with a sharp knife in a careful manner, so as to obtain, if possible, a cross sectional area of not less than 1/32 of a square inch, and approximately four inches in length. Where the insulation of the conductors is such that it is impossible to obtain the cross section named, the whole insulating wall shall be used. Suitable marks shall be made on the samples two inches apart; the samples shall then be stretched until the marks are six inches apart, and one end immediately released. In thirty seconds after the release, the marks must not be over two and one-half inches apart, and in one minute after release the marks must be not more than two and seven-sixteenths (27/16) inches apart. The sample must then be stretched until the marks are eight and one-half inches apart without breaking. The above tests shall be made after the sample has been left exposed (without handling) to a temperature of not less than 50 degrees nor more than 75 degrees F. for a period of ten minutes.

Electrical Tests.

429. All conductors furnished under this Specification must comply with the requirements of two electrical tests. One of these tests shall be an electrical pressure test, and the other an insulation resistance test.

Pressure Test.

430. The pressure test must be made after not less than 24 hours' immersion in water and must be applied for five minutes without breakdown of the insulation. Alternating current shall be used, and the potential shall vary with the size of the conductors. For conductors of No. 14 to No. 2 B. & S. G., the potential shall be not less than 2,500 volts; for conductors of No. 1 to No. 4/0 B. & S. G., not less than 3,000 volts, and for conductors of 250,000 to 500,000 circular mills, not less than 4,000 volts. For conductors larger than 500,000 c.m. the potential shall be not less than 4,500 volts.

Samples of wire for test must be promptly furnished to the Architects after the award of the contract.

Samples of wire for the insulation resistance test must be furnished the Architects before the wire is shipped to the building, and in ample time to avoid delay in the erection of the work. Additional samples will be selected by the Architects at random at the building, which must be sent to them for test. These samples must be not less than five hundred feet in length. The samples will be returned to the Contractor after the test has been made.

Insulation Resistance Test.

431. The samples shall be immersed in water for a period of not less than 48 hours to insure the braid being saturated. The tests shall be made at a temperature of 60 degrees F., or as near thereto as practicable. The insulation resistance, expressed in megohms per mile, at 60 degrees F., for any sample submitted must be not less than

$$3{,}000 \log \frac{D}{d}$$

in each case. D is the outside diameter of the insulated conductor (over the rubber wall), and d is the diameter of the conductor itself. Of this basis, No. 14 B. & S. G. would have an insulation resistance of 1,180 megohms per mile; No. 1 B. & S. G., 510 megohms per mile, and No. 4/0, 340 megohms per mile. All other sizes shall be in proportion.

Samples of Wire.

432. The Contractor must furnish the Architects and the Chief Engineer of Light and Power with samples of wires of the size and length desired for making suitable and proper tests of the same.

Said samples shall be furnished at least 60 days before installing said wires.

Joints.

433. All wires shall be continuous between the points they connect, such as from outlet to outlet, from cut-out to cut-out, switch, junction box, etc. No joints shall be made except by the special permission of, and in manner prescribed by the Architects and the Chief Engineer of Light and Power.

Lamp Receptacles.

434. The Contractor shall provide, install and connect the lamp receptacles indicated on the plans. All lamp receptacles located on the wall shall be of the keyed type, and those located on the ceiling shall be of the keyless type.

The exact type of receptacle used will depend upon the condition in each case, and samples must be submitted to the Architects and the Chief Engineer of Light and Power for approval.

Insertion Plug Outfits.

435. The Contractor shall provide, install and connect the insertion plug outfits indicated on the plans.

Each outfit shall include an approved receptacle, insertion plug, and a flexible cord not less than six feet in length.

Samples of insertion plug outfits must be submitted to the Architects and the Chief Engineer of Light and Power for approval.

Fixture Connections.

436. This portion of the contract will not include the setting of the fixtures, but it will include the connecting of all branch circuits to the fixture wiring.

The Contractor shall test the fixture wiring and shall make sure that it is free from leaks, grounds or crosses, both before and after being connected to the branch circuits.

All fixture wiring found defective in any respect shall be reported to (and is to be repaired by) the Contractor.

Quality of Work.

437. All circuit work shall be done in a thoroughly workmanlike manner.

All materials shall be strictly first-class, even though not specifically mentioned in the Specification.

Particular care must be taken to avoid crosses, grounds, imperfect conditions,

contacts or other electrical defects in the circuit work, which must be clear of all imperfections when submitted for acceptance.

Cutting, Patching, etc.

438. All cutting, drilling, patching, etc., necessary for the installation of the electrical equipment covered under this Specification, shall be included in the contract, and shall be done in accordance with the agreement between the various trades and the employers' association, so as to avoid any controversy between the various trades.

Special Details of Electric Circuit Work.

New Power Feeders.

439. As indicated on the feeder sheet, the Contractor shall provide, install and connect two new power feeders which will serve to supply current to the various ventilating motors for upper floors. The said feeders shall originate at existing service switchboard located on basement mezzanine floor, and terminate at main switchboard on 4th floor.

Each feeder shall consist of four (4) No. 500,000 c.m. conductors installed in two (2) 3-inch conduits. The estimated length of each (one way) feeder is approximately 539 feet, making a total of 4,312 feet of No. 500,000 c.m. conductors and 2,156 feet of 3-inch conduit. Owing to the lower portion of this building being already under contract, the routes of these feeders are not indicated on the floor plans, the intention being to install said feeders exposed on basement mezzanine ceiling to a point under elevator shaft. They shall then rise in a special chase provided for the purpose to the 4th floor, landing at which point, they shall be installed in the space above arch ceiling and 4th floor level over Chambers street at main switchboard, at a point to be directed at the building.

All necessary pull-boxes, supports, etc., required to install these feeders in a neat, approved manner shall be provided by the Contractor, and after said feeders are properly installed, the Contractor shall paint all exposed conduits and boxes two coats of approved paint.

Switchboard Pull Box.

440. As indicated on Sheet No. 1056-E, the Contractor shall provide and install in the rear, and at each end of main switchboard at 4th floor, an approved pull-box of heavy, reinforced sheet metal.

This pull-box shall extend the full length of the switchboard, and shall be of approved form and dimensions. It must be built to suit the peculiar conditions of the case, and shall be built over an approved framework of angle iron, channels, etc., secured to the ceiling and wall in a proper, approved manner. The sheet iron shall be not less than ⅛-inch in thickness, and painted with approved protective paint inside and out.

The Contractor shall provide suitable approved angle-iron racks, with porcelain insulators for properly supporting and arranging the conductors in a neat and workmanlike manner, so that each conductor may be brought directly over the point of connection to the switchboard. Approved bushing shall be provided at all points where the conductors pass through the pull-box. The conduits must enter the pull-box in an approved manner, and must be secured independently of the pull-box, and shall be provided with a lock nut and bushing. All feeders inside of the pull-box shall be tagged with the number of the feeder in each case, so that they may be readily and conveniently traced in case of necessity.

The Contractor must submit to the Architects for approval, a drawing showing the construction, form and size of the special pull-box, before the same is installed.

Rising Points.

441. There will be four (4) rising shafts provided (under another contract) for the vertical portion of the electric lighting and power feeders for upper floors.

The Contractor shall, however, provide suitable supporting clamps for the conduits at each floor. These supporting clamps must be properly secured to the floor beams in an approved manner.

Feeders.

442. As indicated on the feeder sheet, separate feeders have been provided for the lighting and power wiring, as follows:

General Lighting.
Hall, Stair and Corridor Lighting.
Elevator Lighting.
Special Outside Lighting.
Ventilating Motors, etc.

As indicated on the 4th floor plan, all of the feeders are to be installed exposed on ceiling, and this contract will include all the necessary supports, hangers, etc., required to install these feeders in a neat, approved manner.

Owing to the great number of pipes, ducts, etc., that may be required for the building, and the limited space for the same, special precautions must be taken by the Contractor to adjust the work to be installed under this contract and with the work installed or to be installed under other contracts. The Contractor will be required to co-operate with other contractors in order to avoid difficulties and conflicts with work to be installed under other contracts, so as to adjust the space conditions to suit the various ducts, pipes, etc., that may be installed.

If found necessary to change the route of these feeders, the Contractor shall submit a drawing to the Architects for approval.

Exposed Conduits.

443. Where the conduits are run exposed, they shall be run in a neat, workmanlike manner, at right angles to the walls and partitions, substantially as shown on the plans. Condulets shall be used in place of outlet boxes in a great number of cases.

The Contractor shall provide suitable approved conduit supports for all conduits. These supports must be substantial in character, and the Contractor shall drill the floor arches and use expansion bolts for the supports. This must be done in such a manner as not to interfere with the ceiling arches. Where the conduits run on the side walls, they must be strapped to the walls in an approved manner.

The exposed conduits need not have the additional outside coat of enamel over the galvanizing. All exposed conduits, however, must be painted two coats of paint of approved color after they are in position.

Feeder Pull Boxes.

444. Where indicated on the plans, the Contractor shall provide suitable approved pull boxes to facilitate the insertion of the feeder conductors. The pull boxes shall be entirely of steel of approved thickness. The covers of the pull boxes shall be secured in position by means of screws and must be so arranged as to be readily and conveniently removed. The Contractor shall submit drawings showing the form, size and design of the pull boxes to the Architects and the Chief Engineer of Light and Power for approval, before installing the same. The Contractor shall provide suitable porcelain clamp supports in all pull boxes for supporting the feeders passing through the box, so that the feeder conductors will not be unsupported for a distance greater than 3 feet, so as to afford a neat and orderly arrangement of the conductors passing through the pull boxes. Each feeder passing through the pull boxes shall be tagged or designated in some other approved manner.

Feeder Supporting Boxes.

445. The Contractor shall provide and install at the rising points, where indicated on the diagram sheet, a suitable approved steel cabinet to serve as a feeder support box.

Those cabinets must be supported by angle iron construction from the floor beams and columns in a substantial manner, approved by the Architects.

The conduits shall be secured to the support boxes in a proper approved manner, and the conduit ends shall be provided with insulating bushings and lock nuts. The conductors shall be supported by special porcelain clamp supports. The feeder support boxes shall be of the "Tower" cable support box type, such as made by the H. Krantz Manufacturing Company, Russel and Stoll, or other equally good approved make.

Motor Wiring.

446. The contract shall be based on providing feeders for certain motors as indicated on the plans and on the feeder sheet.

The electric motors required for the pumps, ventilating fans, etc., and the controllers for the same, will be provided as hereinbefore specified, but this portion of the contract will include all the wiring to and as far as the electric motors, in each case, including making all the necessary connections.

At the terminals of each of the motor circuits the Contractor shall provide a double pole, single throw knife switch, mounted on a slate base and located in a suitable approved slate-lined cabinet with door.

The Contractor will be required to furnish special lugs of proper size at the end of all motor feeders or circuits, and to make the connections for the same.

In general, the Contractor shall provide all material and labor and shall do all the work requisite and necessary, and not otherwise provided, to complete the circuit connections with and between the starting box and the motor, and to put the motor wiring in perfect condition for delivering to each said motor the proper and requisite current pressure and volume.

The list of motor feeders and the motors which they supply, with the approximate estimated horse-power of each, is given in the following schedule:

Location.	Serves for	Horse-power Capacity.
Basement	Vacuum Cleaning System	75
4th floor	Ventilating System	138
25th floor	Ventilating System	20
26th floor	Ventilating System	22
28th floor	Ventilating System	12
Total horse-power		267

Definite Location of Motor Controllers.

447. The Contractor will be held responsible for the exact and definite location of the motor controllers and motors so far as the wiring is concerned. He shall obtain the locations of the controllers and motors in each case before installing the circuit work.

Circuit Work to be Installed as Directed.

448. As the exact details of the 4th floor have not yet been exactly determined, the Contractor shall include in his estimate the various additional outlets, with all the necessary circuit work indicated in a note on the 4th floor plans. In each case these additional outlets shall be located as directed at the building, or as may be shown on definite plan to be issued later. The necessary branch circuit wiring for these outlets shall be extended from the various extension outlets indicated on the floor plans.

The Contractor's attention is called to the fact that these additional outlets, receptacles, etc., are not listed in the schedule of outlets on feeder sheet.

Floor Outlets.

449. The Contractor shall provide, install and connect an approved floor outlet box outfit for each of the floor outlets indicated on the plans.

Each floor outlet box shall be of approved design and construction, and provided with two covers, one to be used when the floor connection is desired, and one to cover the outlet box when not in use.

The outlets shall be of the Krantz improved outlet box outfit, with plug, etc., or other equally good approved floor outlets.

Extension Outlets.

450. At various points, as indicated on the floor plans by special symbol, extension outlets shall be provided as provision for making extensions to the branch circuit wiring. Special outlet boxes shall be provided at these points, having removable openings at all sides, so that extensions may be run in any desired direction exposed. Each outlet box shall be provided with an approved fixture support and cover.

Elevator Car Lighting Cables.

451. The Contractor shall run a separate circuit for each of the elevator car lights, and shall provide all the materials and labor, and shall do all the work requisite and necessary for making the proper approved lighting cable connection for each elevator car outlet.

Each cable shall be made of central flexible steel core, covered with cotton, which shall serve as a cable support, so as to relieve and avoid any possibility of tension on the elevator cable conductors.

Each elevator cable shall include two separate conductors made of finely stranded copper wire, of total sectional area equal to No. 12 B. & S. G., covered with approved rubber insulation, and having a special outer braid of adequate strength and durability for the purpose.

The elevator cables must be made with special reference to the conditions under which they will be used, and samples must be submitted to the Architects and the Chief Engineer of Light and Power for approval.

The Contractor shall provide and install the necessary outlet boxes and push-button switch in each elevator car. The conductors extending between the elevator cable, the local switch and the fixtures in the car, shall be installed in iron conduit as directed.

Stair Circuits.

452. The Contractor shall provide and install a system of vertical circuits for the eight bracket outlets to be installed on the stair landing. These circuits shall originate at cutouts E, F, G and H on the 8th, 15th and 22d floors, and rise and drop to the various stair landings in a manner as directed at the time of installation.

Windlasses.

453. All the circuit work and outlets for the 38 ceiling outlets over main concourse at ground floor are provided under a previous contract, but this contract shall include furnishing and installing 38 special windlasses with the necessary cables, etc., of the Fletcher or other equally good approved type. The windlasses shall be provided with all the latest safety catches, etc., and have removable handles.

The Contractor shall also provide 38 automatic cutouts of the General Electric Co. or other equally good approved make, for the ceiling outlets, which will serve as a means to connect and disconnect the circuit connection between ceiling fixture and branch circuit wiring when said fixture is to be lowered and re-lamped. All the outlet boxes, conduits, etc., for the windlasses and automatic cutouts are already installed, but this contract shall include all the necessary labor and materials necessary to install said windlasses and cutouts in the outlet boxes in a neat approved manner.

The estimated average length of cable required for each windlass is approximately 85 feet.

The Contractor shall also provide and install two additional windlasses and automatic cutouts for two ceiling fixtures which will be suspended under the Chambers street arch.

The windlasses for these two fixtures shall be fastened to the wall on the 4th floor level directly over each fixture, and the automatic cutouts shall be secured in the upper portion of the globe of each fixture in a substantial manner.

This contract also includes the necessary conduit which will serve as a raceway for the supporting cable extending between the junction box on 4th floor and chain suspension of each fixture.

All necessary labor and materials required to support said windlasses, automatic cutouts, conduits, etc., in an approved manner, shall be included in this contract. The estimated length of cable required for each of the two fixtures under the Chambers street arch is approximately 60 feet.

Empty Conduits.

454. As indicated on the Feeder Sheet, the Contractor shall provide and install the three empty 3-inch conduits which will serve as a raceway for future power feeders which may be required for the tower system.

The conduits shall originate at the 4th floor ceiling and terminate at the 26th floor. Both ends of said conduits shall be capped in an approved manner and the Contractor shall take special precautions to install these conduits so as to leave them free from kinks or sharp bends; he shall fish the conduits and leave them free and clear from all obstructions.

Approved bushings and lock nuts shall be installed at all conduit ends where they enter the supporting boxes.

SECTION II. ELECTRIC CALLS AND SIGNALS.

Plans.

455. The general arrangement and details of the Interconnection System and of the electric calls and signals corresponding thereto, are shown (diagrammatically) and the principal data regarding the same are tabulated on a special sheet (Diagram of Interconnection Sheet).

The Wiring Plans show the circuit work specified in Section 1 (for lighting system), and also show the principal features and the general details of circuit work specified in Section II (for electric calls and signal system), including the connecting centers, the main trunk lines, the service local lines and the service and outlets at which telephones, watchman's stations or other call and signal appliances are to be located.

The length of conduit and of cables or wires requisite for each local line circuit connection shall be estimated by the Contractor, same as in the case of electric light branch circuits, by measurement on the Wiring Plans, or otherwise. All locations given are subject to modification.

(a) General Interconnection System.

Object of System.

456. The object of the system is to centralize the circuits required for the call signal connections specified, and to facilitate changes therein.

General Arrangement.

457. The interconnection system is based on the use of centers of distribution connected together by main lines somewhat in the same manner as in the case of electric light circuit wiring.

Each such distributing or connecting center comprises an interconnection box which serves as the point of origin of the local lines for a certain portion or section of the building.

This section will comprise various interconnection boxes located at the different floors and connected together substantially as shown by a network of interconnection cables, each containing a sufficient number of wires for all connections required or likely to be made with or through said cable.

Location.

For location the Contractor is referred to paragraph 406 of these Specifications.

Interconnection Boxes.

458. The Contractor shall provide and install at the points shown (approximate) on the Wiring Plans, and he shall make the necessary connections for the interconnection boxes required for the installation. The Diagram Sheet and the Schedule of Data on the said sheet give full information regarding the number and sizes (capacities) of the Interconnection Boxes required at all floors.

Each interconnection box, including the main interconnection box, shall consist of a number of strips of "Electrose," or other equally good approved molded insulating material, designated as unit strips, and having mounted thereon ten (10), or a multiple thereof, individual circuit connectors. The number of each connector shall be designated by means of a plate upon which the number shall be stamped and which shall be secured to an insulated strip in a proper approved manner.

All the units shall be alike or uniform for all the interconnection boxes, but the particular arrangement of unit strips in each interconnection box shall be made suitable for each particular case, so as to adapt it to the space available, the number of circuit terminals, and other conditions influencing its design, proportion and construction. As a rule, the unit strips shall be mounted on raised supports, in rows, with space between and behind them for the connecting ends of the local circuit wires or of the interconnection cables.

Each interconnection box shall also include a sufficient and approved number of battery connecting strips, which shall be placed along the sides of the interconnection box, as directed.

Supporting rings shall be provided in all interconnection boxes, so as to support the cables and wires run inside of said boxes, in an approved manner.

The Contractor shall provide and install in each interconnection box a name plate designating the number or numbers of the corresponding box in each case. The name plates shall be placed on the inside of the door, as directed.

At every interconnection box the serial number shall begin with 1, and shall be consecutive and shall end with the number corresponding to the total number of circuit connectors in said box.

Each interconnection box shall be of iron or steel, of not less than one-eighth inch thickness, and of approved construction; the larger boxes shall be braced and reinforced.

Service Boxes.

459. At the terminal of each service line the Contractor shall provide and install approved service boxes similar to the interconnection boxes in general design.

The service boxes shall be of iron, with doors to correspond with the interconnection boxes in corresponding locations.

The exact location and the height of each service box shall be as directed at the time of installation. Each service box shall be equipped with the requisite number of interconnection strips, the same as specified for the interconnection boxes. The number of strips required in each case is given in the schedule on the diagram sheet.

Installation.

460. Each interconnection box shall be encased or framed by the Contractor in manner suitable and appropriate for its size and location.

The term "case" or "box" as hereinabove used shall include the complete interconnection or service box and the door and trim for the same in each case.

The materials and finish for the cabinet work of front portion of box shall, as a rule, match the trim in each location, and correspond with that portion of the cabinet work for cut-out cabinets.

Details of Interconnection Boxes.

461. The Contractor shall submit for approval a sketch or drawing giving the exact form and dimensions of each interconnection box, which must be approved before the interconnection box and cabinet shall be made and installed.

Record Sheets.

462. The Contractor shall provide approved, printed blank record sheets to be placed inside each interconnection box, and so arranged as to afford facilities for recording any connections made at the corresponding interconnection box; and also to enable the said connections to be at any time easily traced or verified.

The Contractor shall provide for future use one extra sheet for each interconnection box.

The record sheets shall contain approved printed directions for using the system for making the record of connections properly.

Interconnection Lines.

463. The Contractor shall provide, install and connect all the cables requisite for the interconnection system shown or indicated on the plans.

The cables are designated by Arabic numbers in every case, and the course of the cables, their rising points, etc., are sufficiently indicated on the wiring plans.

Principal Data.

464. The schedule of cables on the diagram sheet gives for each cable the points of origin and termination, the number of wires and the (approximate) length required.

The number of the cables, the number of wires are indicated in writing on the diagram near the line representing said cable.

Actual Lengths.

465. The figures given in the tables for lengths required are only approximate, being calculated from the distance measured on the plans, with certain allowance for deviations, connections, etc.

The actual and precise lengths of cable required will depend in each case on the exact location of the interconnection box which the several and various cables will serve to connect. These locations are liable and subject to slight modification.

The Contractor shall provide and set cables of the exact and precise lengths required for each case.

Special attention is called to the fact that lengths of cables for local line connections are not given in the schedule on the diagram sheet.

Kind of Cable.

466. The kind of insulation to be used on the conductors for the interconnection system will be of two kinds, silk and cotton insulation for the main interconnection cables and rubber insulation for the service lines.

All cables shall be made of conductors having not less than 98 per cent. conductivity and thoroughly tinned.

The wires shall be arranged in pairs, twisted together, with at least two, preferably three, twists per foot, and otherwise made so as to be perfectly anti-inductive.

Silk and Cotton Insulation.

467. Silk and cotton insulation shall be used for the conductors for all the main interconnection cables.

These cables shall consist of No. 18 B. & S. G. conductors twisted in pairs, and have silk and cotton insulation; each conductor shall have two inner wrappings of silk differentially wound and two outer cotton wrappings differentially wound. The color of the outer wrappings of cotton shall be different for each conductor, so that the conductors may be connected with as little testing as possible.

These cables shall also have an outer sheathing of lead of approved thickness. The thickness of the lead sheathing will depend upon the number of conductors in the cable.

The terminals of the silk and cotton insulated cable shall be taped and laced in a neat workmanlike manner and then boiled out with paraffin. This work must be done by special workmen skilled in the use of these cables, and the work must be of a standard equal to the Bell Telephone Company's workmanship.

Rubber Covered Cables for Service Lines.

468. The rubber insulated cables for the service lines shall consist of conductors not smaller than No. 18 B. & S. G., thoroughly insulated with strictly first-class rubber or other approved insulating material of the highest grade and quality, same as specified for the electric light circuit wire.

The thickness of the rubber insulated wall shall be not less than twenty-three thousandths (0.023) of an inch. The rubber insulation shall be covered by an outer protective cotton braid not less than fifteen thousandths (0.015) of an inch in thickness.

The quality of the insulation shall be such that each wire will show an insulation resistance, after twenty-four hours' immersion in water, and one minute's electrification of not less than 25 megohms per mile.

The cables shall be made up with an outer wrapping of tape or braid, or both, sufficient and adequate to protect the wires from injury while being drawn through the conduit tubes.

Samples of cable containing not less than 30 wires must be submitted before the said cables are installed.

Conduits.

469. The minimum sizes of conduit allowable for each run depends on the length and especially on the size of cable to be installed in the same. The minimum sizes of conduit allowable for the main cables are given on the diagram sheet. The sizes allowable for the service lines are indicated on the wiring plans.

The conduits shall be of the same kind and make as specified under Section 1, Electric Light and Power Wiring. Empty conduits shall be provided as a part of the Interconnection System, running from floor to floor to connect the interconnection boxes at the same corresponding point on the various floors.

These conduits shall serve as a raceway for future conductors.

The conduits shall be furnished by the Contractor and shall be left perfectly clear and free from all obstructions, and the end shall be plugged in an approved manner.

Connections.

470. This contract includes all materials and labor necessary to make and complete the circuit connections for the entire interconnection system.

Joints.

471. All cables and wires shall be continuous between interconnection boxes.

Current Supply.

472. The current supply required for the various electric calls and signals in this building shall be obtained from a motor-dynamo and a call battery located at the bellwork switchboard at 4th floor.

Battery Cables.

473. The Contractor shall provide and install the battery cables shown and indicated diagrammatically on the Diagram Sheet. These cables shall consist of No. 12 B. & S. G. rubber insulated conductors, having the same insulation as specified under Section 1, Electric Light and Power Wiring.

The number of conductors required for each cable is given in schedule of cables on the Interconnection Sheet.

Motor Dynamo.

474. The Contractor shall provide, install and connect, where directed on 4th floor, one (1) motor dynamo to serve for generating current for the bell work system.

The motor dynamo shall be of the Crocker-Wheeler, or other equally good approved type, having the "motor-end" designed and adapted for operation by constant potential current of 116 to 120 volts pressure, derived from the electric lighting circuits, and having the dynamo-end designed and adapted for producing (continuous) current meeting the following requirements:

E. M. F..... 20 to 30 volts.
Current capacity ..... 20 amperes.

The motor dynamo shall be designed and built for continuous running, without heating more than 40 degrees C. above the surrounding air and shall not spark injuriously at the commutator. It shall be fitted with automatic lubrication and be provided with starting box and field regulating rheostat, and all the appurtenances for first-class outfits.

The said motor dynamo shall be installed near the bellwork switchboard and cabinet, as directed.

The Contractor shall provide suitable approved foundations or supports for the motor dynamo.

Bell-Work Switchboard.

475. The Contractor shall provide, install and connect where directed later, on 4th floor, an approved switchboard for the control of the various bell call battery appliances, etc. The switchboard shall be of gray Tennessee marble, of approved quality, form and dimensions.

The Contractor shall provide, install and connect on the said switchboard all the appliances necessary for the proper control of the motor-dynamo, and of the call battery serving for furnishing the current supply requisite for the bell-work system.

The outfit of appliances shall include the following:

16 - 15 amp. D. P. S. T. Switches for low potential supply feeders.
2 - 50 amp. D. P. D. T. Battery Switches.
1 - 50 amp. D. P. D. T. Motor Dynamo Switches.
1 - 50 amp. D. P. S. T. Motor Switch.
1 - 50 amp. D. P. S. T. Bus Junction Switch.
2-0-25 amp. Round Pattern Ampere Meters.
1-0-35 volt Round Pattern Voltmeter.
1-6 Point Radial Voltmeter Switch.

All instruments, switches and appliances shall be of approved design and make.

A special drawing showing all details of construction of both the cabinet and the switchboard, as well as the arrangement and connections of the switchboard bus-bar appliances, must be submitted for approval by the Contractor, prior to the installation of the said cabinet and switchboard.

Storage Battery.

476. The Contractor shall provide, install and connect an outfit consisting of 20 cells of storage battery, arranged in two groups, for the call and signal system.

These cells shall have a capacity of 15 amperes at an eight hour rate of discharge (120 amp. hrs.). The cells shall consist of glass jars installed in an approved manner on shelves supported on brackets, as directed at the time of installation. The cells shall be of the Electric Storage Battery Co.'s manufacture or equal thereto.

The Contractor shall provide all the labor and materials for installing the switchboard, motor dynamo, storage battery, etc., in substantial workmanlike manner. The details of the installation of these outfits shall be determined later.

The Contractor shall also make all the necessary connections for and with the various parts of the equipment, as directed.

Terminal Rooms.

477. As indicated on the 4th Floor Plan and Feeder Sheet, there will be two terminal rooms at which the entire interconnection system will center.

In each terminal room the Contractor shall provide, install and connect a total of 3,500 connectors mounted on "Electrose" or other equally good approved molded insulating material, making a total of 7,000 connectors required for the two rooms. The connector strips shall be mounted on angle iron supports in a neat, substantial manner. The Contractor shall provide and install all the angle iron rack supports necessary and requisite for the entire installation. The racks shall be arranged in aisles in such a manner so the cables terminating at the various connector strips can be laced and connected in a neat, approved manner.

All the angle iron framework shall be painted two coats of approved paint before the connector strips are fastened to same.

The Contractor will be required to employ workmen skilled in this kind of work for making all the terminal connections and the manner in lacing the cables entering each terminal room shall be equal to the New York Telephone Company workmanship.

As indicated on Interconnection Sheet, the Contractor shall provide, install and connect a special connecting cable, consisting of 500 lead incased wires, originating in terminal room No. 1 and terminating in terminal room No. 2, which will serve for transmitting various signals between the north and south sections of the building.

Cable Support Boxes.

478. The Contractor shall provide and install at the rising point, where indicated on the Diagram Sheet, a suitable approved steel cabinet to serve as a cable support box.

These cabinets must be supported by angle iron construction from the floor beams and columns, in a substantial and approved manner.

The conduits shall be secured to the support boxes in a proper approved manner and the conduit ends shall be provided with insulating bushings and lock nuts. The conductors shall be supported by special porcelain clamp supports. The cable support boxes shall be of the "Tower Cable Support Box" type, such as made by the H. Krantz Manufacturing Co., or other equally good approved make.

Telephone System.

Description.

479. Special shafts for the vertical telephone cables shall be provided at Rising Points "A" and "B," from the 2d to the 25th floors, inclusive. From these shafts the telephone company shall extend their cables in a special metal cornice, built all around the public corridor at each floor, connecting with said shafts at Rising Points "A" and "B." At twelve points along the main corridor partition, as indicated on typical floor plan, empty telephone cabinets shall be installed, connecting with said special metal cornice, in which the New York Telephone Co. will install their terminal strips and lock nuts. From said telephone cabinets the telephone wires shall be extended to the various telephone instruments, through special chaces behind the metal door trim, base board, etc.; in each office a special pull-box shall be near ceiling (on line with metal cornice in corridor) from which an empty conduit shall be extended, concealed in partition to base board.

Empty conduits shall also be installed under the saddle of each door, which will serve as a raceway for the wires.

Scope of Contract.

480. All empty conduits, outlets and cabinets required for the telephone system shall be included in the contract units.

The Contractor will be required to provide and install the complete empty conduit and cabinet system for the various telephones indicated in detail plans to be issued at the time of installation.

Conduits.

481. The empty conduits shall be of the same grade as specified under Section 1, Electric Light and Power Wiring.

The Contractor must take special precautions in installing these conduits so as to have them free from kinks or sharp bends, and he shall fish the conduits and leave them free from all obstructions. The ends of the conduits must be carefully plugged in all cases.

Cabinets.

482. The Contractor shall provide and install the empty cabinets for the telephone system indicated on the floor plans.

The cabinets shall be similar in design and construction to the interconnection boxes specified hereinabove. They shall not include any connector strips or any devices of that nature, but the cabinets shall be provided with trims and doors, similar to those specified for the interconnection boxes. The exact size of these boxes shall be determined by the Architect and the local telephone company. The Contractor shall base his estimate on installing cabinets of approximately 24 inches by 24 inches by 5 inches, with an additional space on top which will connect with metal cornice on corridor partition.

Before manufacturing these cabinets the Contractor shall submit to the Architect and the Chief Engineer of Light and Power, a detail drawing, so the same can be forwarded to the New York Telephone Company for their approval. The exact manner in which each telephone conduit is to enter the cabinets will be as determined by said telephone company.

After the cabinets have been installed and before the wires have been pulled in, the Contractor shall thoroughly clean the inside of the boxes and paint them with approved protective paint.

Outlets.

483. All outlet boxes required for the telephone system shall be of the same grade as specified under Section 1, Electric Light and Power Wiring.

Telegraph, Time Clock and Time Stamp System.

Description.

484. Two rising shafts have been provided for the vertical cables, to be installed by the various companies supplying Telegraph, Time Clock and Time Stamp service to the building. One of these shafts will be built at Rising Point "C" and the other at Rising Point "D." (See typical floor plan.)

From 2d floor to 25th floor, inclusive, the Contractor shall provide and install a special interconnection box to accommodate the wires to be installed by said companies.

From these interconnection boxes a special 10-wire service line shall be extended to the various service boxes located between the windows on the outside wall (see typical floor plan) by means of the "Loop System."

The intention is to use Rising Point "C" for the north end of the building and Rising Point "D" for the south end.

Scope of Contract.

485. All interconnection boxes to be installed at Rising Points "C" and "D" shall be included in this contract.

All service lines extending to the various service boxes, also the service boxes, shall be included in the contract units.

The exact locations of the various service boxes and route of service line wire will be as indicated on detail plans to be issued at the time of installation.

Interconnection Boxes.

486. The boxes shall be similar in design and construction to the Interconnection Boxes specified for the Interconnection System and shall be of adequate and approved dimensions for containing the necessary connecting strips.

The connectors shall consist of the requisite number of electrose strips having circuit connections of copper. The connector strip for each wire shall be double, and a strap interposed in each connection with four-screw connections for each wire entering the box, two of the fuse connection and two for the incoming and outgoing wires.

Service Lines.

487. The conductors for the service lines shall be of 10 No. 14 B. & S. G. wires, having approved insulation of thickness and passing the test requirements given for the electric light conductors under Section 1, Electric Light and Power Wiring.

These cables shall have an outer wrapping of braid and samples of not less than 100 feet in length shall be submitted for test. The cables must be made up as compactly as possible, so as to be installed in the size of conduits given on the plans.

Service Boxes.

488. In each of the offices the Contractor will be required to provide and install a special service box above base board, which will serve as a junction point for the various wires.

These boxes shall be made of iron, and built substantially as indicated on Sheet No. 1055-E. Each box shall contain a ten connector strip to accommodate the wires for push-button calls, etc.; also two five connector strips to accommodate the loop system of telegraph, time clock and time stamp system.

The ten connector strips shall be of the same design and construction as those specified for the Interconnection System, and the five connector strips similar to those specified for the Interconnection Boxes hereinabove.

Fire Alarm System.

General Description.

489. This portion of the contract will include a fire alarm system, comprising a system of automatic push buttons, located at the various floors, connecting with an annunciator, located on the 4th floor, and through a group of switches on said annunciator, connecting with a system of fire bells located throughout the building.

The Contractor's attention is called to the fact that the complete Fire Alarm System is to be included in the Definite Contract amount. All outlets, bells, buttons, service lines, etc., required for this system shall be provided and installed as indicated herein, or as hereinafter directed.

Push Buttons.

490. There shall be a total of fifty (50) fire alarm buttons required for this system.

The fire alarm automatic push buttons shall be of approved design and construction, with glass fronts, and shall be provided with a small hammer for breaking the glass front in case of fire.

The push-button outfit shall be of the flush type, and shall have covers of approved form, design and finish, and shall include an approved key device for testing purposes.

Fire Bells.

491. There shall be a total of fifty (50) fire bells required for this system.

The fire bells to be provided for the local fire alarm system shall be of the Faraday waterproof, or other equally good approved make, with 6-inch gong. The finish of these bells shall be gun metal color, and samples shall be submitted for approval.

Annunciator.

492. The Contractor shall provide and install where directed later, an approved 75-drop fire alarm annunciator.

A group of 3-point switches shall be mounted on the annunciator, a 3-point switch being provided for each drop of the annunciator and being connected with the corresponding drop.

Each of the drops of the annunciator and each of the 3-point switches shall connect with a fire alarm automatic push button and bell.

The connections at the central stations shall be such that if any additional switch be placed in the first of the three positions, the breaking of the push button glass will merely throw the annunciator drop and ring the annunciator bell; if placed in the second position, it will, in addition, ring the firm alarm bell corresponding to the said push button; and by placing the button in the third position, the operator can ring any one of the fire bells without the corresponding fire bell push button being operated.

Outlets.

493. The Contractor shall provide and install an outlet of approved form and size for each and every push button and bell required for this system. All boxes shall be of the same grade as specified for the outlet boxes under section 1, electric light and power wiring.

Connections.

494. This contract includes all material and labor necessary to make all the circuit connections for the entire fire alarm system. The service lines required for this system are not indicated on the typical floor plan, but the approximate location of the fire alarm stations are indicated on said plan.

The interconnection system can be used for the vertical wires required, but the service line extending between the various interconnection boxes and fire alarm stations shall be estimated by the Contractor.

Cable.

495. In addition to the cables indicated on interconnection sheet, the Contractor shall include in his estimate two (2) 50-wire cables, the estimated length of each being 125 feet. One of these cables shall originate at terminal room 1 and the other at terminal room 2, and both shall terminate at the fire alarm annunciator in an approved manner.

Watchman's Detector System.

Scope of Contract.

496. The Contractor shall provide, install and connect all the appliances requisite and necessary for a complete watchman's detector system.

(The necessary circuits and connections shall be made through and by means of the interconnection system and vertical cables, as indicated on the feeder sheet.)

The equipment shall include a watchman's register outfit and the watchman's station outfits, variously located, as shown on the plans.

Watchman's Register.

497. The contract will include a watchman's register for the new building, having a register dial with appliances and connections for a total of not less than seventy-five (75) stations, including twenty-five (25) spare connections.

The register outfit shall be of approved design and construction, with case of suitable material and design for the location. A drawing of the cabinet shall be submitted for approval.

No clock time dial will be required with the register outfit.

The register outfit shall be of the Pettes & Randall, Holtzer Cabot, or other equally good approved make.

The Contractor shall provide paper dials and furnish two hundred additional dials.

Station Outfits.

498. The Contractor shall provide, install and connect fifty (50) watchman's station outfits located at or near the point shown on the plans.

The station box outfit shall be of the magneto type, and shall be so constructed that each station box may be set flush with the face of the wall where it is located. The face plate shall be of brass, of approved size, finish and form.

Watchman's stations of the American type (Pettes & Randall) and Holtzer Cabot type will be approved. All other must be submitted for approval. These station outfits shall have detachable keys.

Outlets.

499. The Contractor shall provide and install an outlet box of approved form and size for each and every watchman's station outfit required for this system.

Connections.

500. This contract will include all the material and labor necessary to make all the circuit connections required for the entire watchman's detector system.

As already stated, the interconnection system can be used for the vertical cables required, but the amount of service line required from various interconnection boxes to the watchman's stations, shall be estimated by the Contractor.

Cable.

501. In addition to the cables indicated on the interconnection sheet, the Contractor shall include in his estimate two (2) 50-wire cables, the estimated length of each being 125 feet.

One of these cables shall originate at terminal room 1 and the other at terminal room 2, and both shall terminate at the watchman's central station in an approved manner.

SECTION III. ELEVATOR SIGNAL SYSTEM.

Work Included.

502. This section of the Specifications includes the following:

I. Call system for shuttle elevator.

II. Complete call and signal system for 32 passenger elevators.

I. Call System for Shuttle Elevator.

503. The Contractor shall provide and install a signal system for the shuttle elevator, running from 24th to 36th floors, inclusive. This shall include an up and down push button at each intermediate floor, and single push button at top and bottom floors, connecting with an up and down annunciator in the elevator car. The push buttons shall be mounted on approved bronze plates, located where directed near each of the elevator openings.

The annunciator shall be of the miniature lamp type, mounted in approved metal case.

The Contractor shall make all the necessary connections between the push buttons and the annunciator, including the flexible cable connecting with the elevator car.

The Contractor shall also provide an approved telephone outfit in the car, and shall connect same with the telephone switchboard in one of the two dispatchers' offices as directed.

II. Complete Call and Signal System for the Two Main Groups of Elevators.

General Description.

504. The Contractor shall provide, install and connect the complete call and signal system, dispatchers' stations, etc., as specified more in detail hereinafter for each of the two groups of elevators. Each group of 16 elevators shall be treated in a separate and distinct manner, so far as the call and signal systems are concerned, although the Contractor shall provide cross connecting cables between the two dispatchers' signal stations, and also between the two groups of controllers. These cross connecting cables shall not be required to transfer all the car signals or telephones from one group to the other, but merely to provide a certain limited number of wires for making cross connections as may be required. The contract is to be based on a cable of not less than 20 wires between the two groups of elevators for the controller boards, and a cable of not less than 20 wires between the two dispatchers' signal stations.

It shall be understood in the following specification that the Contractor shall provide a complete signal system for each of the two groups of elevators, and although, for purpose of clearness, the specification may refer to the description of the equipment for one group, the contract shall be based on complete signal system for both groups.

The equipment shall include complete flashlight signal system, with up and down signal lantern fixtures near each elevator, signal lamp and single stroke bell in each car connecting with up and down push buttons in front of each group of elevators, transfer buttons in each car, night service annunciators in two cars of each group, electric sign or directory boards at each floor from ground to 25th floor. Also dispatchers' signal and dispatching stations at 26th floor for each of the two groups of elevators with position indicator (lamp) board, telephone equipment, automatic starting devices, call back system, full car signal, starting lamp signals for each car at 1st floor, and the necessary circuit work, motor generators, storage battery, con-

trollers, and, in general, all the necessary labor and materials, apparatus and appliances to accomplish the purpose set forth hereinbelow.

Object of System.

505. The object of the elevator signal system is to provide suitable and approved means for plainly indicating destination and service of each car, or each group of cars, so as to avoid confusion, hesitation or errors on part of strangers or occupants of building in using the signal system, and in waiting for the elevator cars.

The system must also be designed so as to permit flexibility in the arrangement of the signals so that certain elevators may, when it is desired, be used for either local or express service, and to permit of a change of schedule in service during rush hours, and so that two cars in each group may be used for night service.

The system must also be arranged so as to facilitate and simplify the work of the car operators, and to enable them to maintain as rapid and regular a service schedule as possible.

The system shall also be arranged so as to provide for complete control of each of the cars from the dispatcher's station governing the corresponding group, so that the cars may be operated at regular intervals, and thereby distribute the work evenly among the elevators. The system shall be arranged so that the dispatcher may know the position in the hatchway of each car, and may, by means of the telephone, instruct the operator who is behind the schedule to omit stopping at certain floors, and allow him, by means of transfer buttons, to prevent the resetting of the signal in such case. It shall also be arranged so that the operator may indicate, by means of lamp signals, to the dispatcher that his car is fully loaded.

In general, the system must fulfill in the most complete manner, the requirements necessary to effect the most rapid possible schedule, to plainly indicate to all passengers the car or cars which will take them to the desired destination, to prevent resetting of signals after button has been pushed until passenger has been taken on car, and to avoid the necessity of passengers taking unnecessary steps or causing elevator cars to wait for passengers.

Details.

506. The Contractor shall submit complete details to the Architects, giving the description of the various portions of the system which he proposes to install, including materials, design, arrangement of circuits, etc.

Signal System.

507. The signal system shall include a controller, signal lanterns, with lamps designating the up and down direction, and push buttons marked "Up" and "Down," located in front of the elevators. The controllers shall be connected with the push buttons and the signal lanterns in such a manner that when a passenger desires to use an elevator he pushes the "Up" or "Down" button, depending upon the direction in which he desires to go; when the first car serving that floor and traveling in the desired direction reaches a point about two or three floors distant from where the signal is sent, the lamp in the Up or Down portion of the lantern shall be lighted automatically. When the car has passed the floor, the lamp and signal shall be reset unless the car is full, or is behind its schedule, when the signal may be transferred to the next car, either by means of a transfer button in the car, or the transfer button in the dispatchers' offices.

The controller mechanism shall be located where directed at top of the hatchways, and shall be driven from the elevator sheaves in an approved manner.

Dispatchers' Station Equipment.

508. The Contractor shall provide and install a complete dispatchers' station and equipment for each of the two groups of elevators. Each of these dispatching stations shall be located in a room near the corresponding group of elevators at the 26th floor. The dispatchers' stations shall be designed so as to fulfill the purpose outlined hereinabove, and shall include the equipment and various devices specified hereinbelow.

Car Position Indicator.

509. The Contractor shall provide and install in each of the two dispatchers' offices an approved car position indicator using miniature lamps, and having one lamp for each floor for each elevator. These lamps shall be arranged in groups corresponding to the arrangement of the elevators, so that by inspection the dispatcher can readily ascertain the position of each car. The proper indicators shall be arranged as directed for each lamp.

Telephone Equipment.

510. The Contractor shall provide and install in each dispatcher's office approved telephone switchboard of central energy type, having a capacity of not less than 30 stations, equipped with 30-line circuits with lamp signal, special locking listening key circuits, cord circuits, operator's telephone circuit, chest type transmitter and head band receiver, and panel circuit with key for cutting in and out of circuit.

The Contractor shall also provide and install in each of the elevators an approved telephone outfit to be placed at convenient point on side of car and equipped with a received designed for loud speaking with megaphone. The transmitter shall be such that the message will be clear and distinct and readily heard by operator when standing in normal position at car switch. The car outfit shall be so arranged that when operator finds it necessary to communicate with dispatcher, he may close a circuit by removing receiver from switch hook, and thereby light the lamp at dispatcher's station corresponding to his car.

The Contractor shall also provide a telephone station in machine room over each of the two groups of elevators, in engineer's office in sub-basement, in superintendent's office (location to be as directed later), and where directed in 1st floor elevator corridor, for each of the two groups of elevators.

The telephone equipment shall be equal to the standard of the Western Electric Company's best manufacture, which is specified only as a means of briefly describing the articles required.

The telephone switchboard in each dispatcher's office shall be so arranged as to permit dispatcher to have both hands free, and so designed as to facilitate his telephoning quickly and readily to any of the stations with which the switchboard is connected.

The contract shall include an approved desk in each dispatcher's office, on which shall be located the telephone switchboard, lamp position indicator, and other devices required for the dispatching system.

Automatic Starting Signal.

511. The Contractor shall provide and install in each dispatcher's office two automatic motor-driven timing devices; each timing device to be arranged for eight elevators. These timing devices shall be connected through a keyboard with a buzzer or lamp, or both, at top and bottom of hatchway, for the corresponding group of elevators, and so interconnected that one timing device may serve for two groups (8 elevators in each group) if so desired, and also so that the timing device may be cut in and out of circuit by the dispatcher. A buzzer or lamp, or both, shall also be connected in the dispatchers' offices in circuit with each timing device.

Transfer Devices.

512. The dispatcher's outfit shall also include the necessary circuit operating devices for enabling the dispatcher to transfer signals from one car or group of cars to another, independent of the operator, and thereby prevent the operator from receiving said signal, and also prevent the signal from being reset when car passes floor.

Call Back Signal.

513. Dispatchers' equipments shall also include a group of push buttons connected with bell or buzzer in car, enabling the dispatcher to communicate with operator at any point in hatch, by code signal independent of telephones.

Car Signal.

514. Each Dispatcher's outfit shall also include a miniature lamp annunciator comprising 16 lamps corresponding to each of the 16 cars, and connected with push buttons in the respective elevators, so that the operator in the car, by pushing a button, may indicate to dispatcher that his car is fully loaded, and is unable to take on more passengers.

Starting Signal at First Floor.

515. A starting signal consisting of lamp or buzzer, or both, shall be provided at 1st floor for each of the elevators, and so connected as to be operated automatically by the automatic timing devices, or by a push button under control of dispatcher as desired.

Night Service Annunciator.

516. The Contractor shall provide and install in two elevators in each of the two groups (total, four annunciators) an up-and-down double-indicating lamp annunciator for night elevator service when the regular signal system will not be in operation. These annunciators shall be connected to throw over switches located at controllers, so that by the operation of the throw-over switch the up-and-down lanterns may be thrown out of service and the night annunciator connected to operate by means of the up-and-down push buttons.

Express Service.

517. The controllers shall be so divided and the circuits so arranged that any of the elevators in either group may be operated as express elevators, having the first stop at either the 10th, 12th, 14th or 16th floors, as may be found desirable later. The equipment shall be so designed and connected as to permit using any of the elevators for said express service without changing the wiring connections, said change being made by means of proper switches placed near the overhead controlling mechanism.

Electric Sign or Directory Boards.

518. The Contractor shall place in each elevator corridor from the 1st to the 25th floors, inclusive, where directed by the Architects, an approved illuminated electric sign or directory board, for designating the travel of the various cars, and also indicating the cars to be used at said floor, and showing whether said cars are local or express. The total number of signs required will be fifty (50).

Each sign shall consist of an approved metal cabinet of cast iron, triple-plated bronze of design approved by the Architects. The upper portion of the sign shall be divided into three horizontal compartments, in each of which compartments shall be contained a rolling shutter device, and each of the rolling shutters shall contain three separate and distinct inscriptions and so arranged as to be readily changed. The wording of these inscriptions shall be as directed later, but, in general, they shall serve to instruct the waiting passengers as to the proper cars to be used at said floor, and also indicating which cars stop at said floor, and whether express or local. The rolling shutters shall consist of letters on translucent material with glass panes in front of same, and have electric lamps located back of same, in order to have the letters stand out sharp and distinct.

The lower portion of the sign shall contain 16 small compartments, each compartment corresponding to a number of the car in said group. The Contractor shall provide in each of these 16 compartments two receptacles, one for a red light and the other for a white light.

The Contractor shall run the necessary circuits, consisting of No. 14 B. & S. G. conductors, to a switch controlling board located in dispatcher's room at 26th floor. There shall be a circuit required for each of the three upper sections of the sign, so that the corresponding section may be lighted or not, as desired. A single conductor shall be run to each of the two receptacles in each of the 16 compartments, in each sign, direct to the switch controlling board in dispatcher's office, and two common wires, one for the red lights and one for the white lights.

The switch controlling boards in each of the dispatchers' offices shall include a single throw, single pole knife switch for controlling each of the three upper sections in each sign, and a double throw, single pole knife switch for controlling lamps back of each of the numerals in the lower portion of the sign, so that by throwing the switch up the red light may be lighted back of any number, by throwing it down the white light may be lighted and by throwing it in the neutral position neither light will be lighted.

The lamps for electric sign boards shall be operated on a special 30-volt system, and the receptacles shall be of the standard Edison base.

The Contractor shall support the signs in approved manner as directed, and shall run all the circuits for accomplishing the desired purpose and object.

As specified hereinbelow, each of the lamps for the numbers in the sign shall connect with a corresponding lamp number attached to the elevator signal lantern.

The knife switches for controlling the lamps in the signs shall be mounted on slate panels, located in despatcher's office. The panels shall be of approved design and drawings showing complete details must be submitted to the Architects and the Chief Engineer of Light and Power, for approval.

Signal Lamps at Landing.

519. The Contractor shall provide and install a signal lantern fixture for each elevator at each floor landing. The fixture shall be of cast iron-triple-plated bronze, having two glass globes for "Up" and "Down" respectively. The design for the signal fixture shall be submitted to the Architects for approval.

At each floor, except the top and bottom landings the fixture lantern shall be double in each case. The lantern fixture at the top and bottom floors shall be single, in each case.

Attached to the metal portion of each signal lantern shall be provided a small metal frame containing two standard base Edison lamp receptacles for illuminating a glass pane on each side, on which shall be etched the number of the corresponding elevator. These receptacles, one of which will serve for the red light, and the other for the white light, shall be connected to the corresponding receptacles in the electric sign on said floor.

Push Buttons at Landings.

520. The Contractor shall provide, install and connect two sets of "Up" and "Down" push buttons at each floor landing. These buttons shall be mounted on an ornamental cast-iron frame of plates having triple-plated electro bronze finish. The design and finish of the push-button plates shall be submitted to the Architects for approval.

The Push-button contacts shall be so designed as to afford a scraping contact. The design and construction of the push buttons shall be as approved by the Architects and the Chief Engineer of Light and Power.

Double push buttons (for up and down) shall be provided at all floors except the top and bottom, where single push buttons shall be provided.

Motor Generators.

521. The outfit of motor generators shall include:

1. A motor generator for each of the two groups of elevators for operating the up and down signal lights. A third motor generator to serve as a relay in case either of the motor generators is, for any reason, out of commission.

2. The Contractor shall provide two motor generators wound for a potential of approximately 30 volts at the generator end for the operation of the 25-volt Tungsten lamps to be used in the electric sign or directory boards. Each of these motor generators shall be of sufficient capacity to supply all the lamps in all the signs simultaneously, one of the motor generators serving as a relay for the other.

3. The Contractor shall provide and install a motor generator for charging the storage batteries serving for the telephone equipment.

All of the motor generators shall be of ample size for carrying maximum load to which they will ever be subjected, without heating more than 40 degrees C. at the armature or field, or 45 degrees C. at the commutator above the surrounding air. They shall not spark injuriously at the commutator. The motor generators shall have the motor and generator mounted on a common base plate, and shall run at slow or moderate speeds. They shall be of approved make and of design approved by the Architects and the Chief Engineer of Light and Power.

Each motor generator shall include the necessary starting and controlling devices.

The Contractor shall provide and install the necessary control panels or switchboards for the motor generators. The Contractor shall submit for approval drawings showing the details and arrangement of the motor generator and control panels.

Storage Battery.

522. The Contractor shall provide and install the necessary equipment of storage batteries, charging and measuring devices for same, required for the operation of the telephone equipment, etc. The storage battery shall be in duplicate, so one set may be charged while the other set is in use. The outfit shall include wooden sand trays mounted on heavy porcelain insulators, and all the necessary switching devices, hydrometers, etc.

The outfit shall include two groups of eight cells, each cell having a capacity of 15 amperes, at the eight-hour rate of discharge, or a total of 120 ampere hours.

Circuit Work.

523. All the circuits for the elevator signals shall be run in iron conduits, with split tees at each floor and arranged as directed by the Architects. The wire used shall comply with the requirements specified for the conductors for the electric light wiring.

Approval of Materials and Details.

524. The design, material, finish, arrangement and location of all devices for the elevator signal system shall be submitted to and approved by the Architects before installation.

Section IV. Switchboard, Etc.

525. This section of the specifications comprises:

(A) Switchboard Framework and Panels.
(B) Switchboard Appliances.
(C) Connections.
(D) Additional Switches on Basement Mezzanine Switchboard.

(*A*) *Switchboard Framework and Panels.*

General Description.

526. The subsidiary switchboard shall be substantially of the form and dimensions shown on Sheet No. 1056E and shall consist of twelve (12) lighting feeder panels, two (2) power feeder panels, and various fuse panels.

The main panels and fuse panels shall be mounted on and supported by an angle iron framework, specified hereinafter.

The fuse panels on these boards shall be placed at the back of the main panels.

The exact dimensions of the switchboard will be slightly influenced by the particular apparatus to be used for its equipment.

It is desired and intended to retain, as far as possible and practicable, the dimensions, proportion and relations of the various panels shown or indicated on the plan, and specified in this specification.

Frame.

527. The Contractor shall provide and erect on the 4th floor of the building, at the place allotted for the subsidiary switchboard, as directed, a suitable support frame for holding properly in position the various slabs of marble constituting the subsidiary switchboard.

The said frame shall be built of angle iron and shall be (in form and size) suited and adapted for the specific design, arrangement and dimensions of the face panels and fuse boards that may be approved and adopted later.

The frame shall include a sufficient number of upright beams, each of sufficient length to reach from the floor to the ceiling.

The uprights shall be located back of the panels, at the ends of said panels, and also at middle thereof, or elsewhere wherever needed, as may be determined and decided later.

The frame shall also include a sufficient number of approved upright beams, posts, or other supports, for the structure on which the fuse panels shall be mounted.

The uprights shall be framed together by other (angle) beams, horizontally or otherwise set between them, at the proper heights and places as required to constitute and produce a strong and properly braced rigid framework, affording adequate means of support and fastening for the several individual slabs of which the panels of the switchboard shall be made.

The frame and the switchboard shall be supported in position by individual "struts" or feet, placed in sufficient number between the upright beams to distribute the total weights properly.

The lower ends of the uprights and struts shall be fitted with foot "plates," which shall be set into the concrete of the floor as directed.

The frame shall be braced at the top by a suitable number of angle iron braces of proper form and dimensions reaching to, and anchored in, the wall back of the switchboard.

The frame shall be constructed from an exact approved drawing, giving all its essential and important features and details of construction.

Panels.

528. The Contractor shall provide and install in position on the hereinabove specified support-frame the slabs of marble requisite for the various panels of the switchboard.

The fourteen (14) main or face panels shall be of Gray Tennessee Marble.

The forty-two (42) rear panels or fuse boards shall be of slate.

The marble and slate shall be free from metallic "veins" or streaks, and be of the best insulating quality procurable.

The particular marble and slate used must be as approved by the Architects, to whom samples must be submitted for approval.

The total amount of marble required for the entire switchboard will be approximately two hundred and thirty-three (233) square feet with slabs not less than 2¼ inches in thickness.

Fuse Boards.

The feeder fuse boards shall be of dark slate not less than 1½ inches nor more than 2 inches thick, according to the kind of slate used.

The length and width shall be sufficient and adequate for the proper accommodation of the fuse terminals to be mounted on the fuse boards.

Border.

529. The switchboard shall be properly encased with a metal casing or border of neat design and appearance. The design of the said metal frame shall be such as to completely conceal the angle iron supports, stays, etc., on the switchboard frame, and to make the parts invisible from the front.

The border is indicated by a line drawn at the distance of 3 inches from the outer edge of each panel.

The border shall be such as to enclose the fourteen panels collectively, without separation between the panels.

The finish of the border shall be of gun metal color.

Grill Work.

530. The Contractor shall enclose the ends and the entire front of the switchboard by suitable metal grills. This enclosure shall extend from the floor to the ceiling.

Each end enclosure shall extend from the wall and pull box in rear of switchboard, to a point approximately five (5) feet in front of switchboard, making a total length of each end grill of about nine (9) feet. This enclosure shall be provided with suitable doors to both rear and front of switchboard.

The design and finish shall be such as to blend and harmonize properly with the metal work of the switchboard proper, and shall be as directed by the Architects.

Marble Shelf.

531. The Contractor shall provide the 2-inch marble shelves shown in section on the Plan. These shelves will serve as a support and insulation for the feeder extension bars. The exact arrangement of these shelves shall be as directed by the Architects.

(*b*) All knife switches shall be mounted directly upon the marble slabs of the panels.

(*c*) The fuse holders and fuse connecting terminals—one for each pole—for all knife switches shall be mounted on the fuse boards located at the back of the panels.

(*d*) The contact jaws must be split or subdivided in such manner that in any one individual leaf or strip of the switch jaw there shall be not more than two and one-half (2½) square inches of contact surface.

(*e*) The only material allowed for all contact making or current conducting portions in blades, jaws, jaw-blades, studs, etc., shall be pure cold rolled or drawn copper having not less than 95 per cent. conductivity. All joints between jaw-blades, jaw-blocks and studs shall be made in the most approved and workmanlike manner.

The jaw-blades or clip bases shall be a one-piece copper forging, with the connecting studs serving for a connection conveying the electrical current to or from the contact slips; they shall be properly and accurately milled for the jaw-blades, the joints of which shall make a hard or driving fit to be properly "sweated" and copper pinned before the final finish.

(*f*) The contact surfaces at all the moving contacts, such as switch blades and switch jaws, shall be calculated on an allowance of not over fifty (50) amperes per square inch (7.8 amperes per square centimeter) of contact.

The contact surfaces at all stationary contacts, such as the unsoldered connections of studs with bus-bars and feeder terminal lugs, shall be calculated on an allowance of one hundred (100) amperes per square inch (15.5 amperes per square centimeter), same as for bus-bar connections. The contact surface of all screw-threaded parts of studs, etc., shall be considered equal to the "projected" area or surface of the contact, or the surface of an unthreaded joint of same length and diameter.

(*B*) *Appliances.*

Scope of Contract.

532. The Contractor shall provide all the appliances required for the switchboard outfit, and shall provide all materials and labor, and do all the work requisite and necessary to install and connect the same properly on the various panels of the switchboard.

The proposals shall be based on a complete and perfect outfit of appliances, using the best materials and workmanship and finish of the highest class.

Panel Outfits.

533. The general arrangement and the principal details of the panels of the switchboard are shown on Sheet No. 1056 E. The switchboard is subdivided into twelve (12) lighting panels and two (2) power panels. Each lighting panel shall serve as a distributing board for a separate main tie line feeder, and each power panel as a distributing board for two power feeders.

One of the large switches on each lighting panel shall serve as a tie switch for tying the busbars of adjacent panels together.

Knife Switches.

534. The Contractor shall provide and install on the switchboard the various knife switches shown and scheduled on the plan, Sheet No. 1056 E.

Knife Switch Construction.

535 (a). The knife switches shall be made only from exact detailed drawings duly submitted to and approved by the Architects.

The sectional area of all current conducting parts of studs, lugs, jaws, blades, etc., shall be calculated on an allowance of at least 95 per cent. conductivity, of not over 750 amperes per square inch (124 amperes per square centimeter).

(*g*). The rise of temperature in any portion of any switch must not exceed 20 degrees C. (36 degrees F.) after said switch shall have carried its full current load continuously for two hours.

Installing.

536. The Contractor shall install all of the hereinbefore specified appliances.

In general, he shall furnish all labor and materials and do all work requisite to put the appliances in complete and perfect operative condition.

(*C*) *Connections.*

General Requirements.

537. The Contractor shall supply all materials and labor and shall do all work requisite and necessary for providing and installing the busbar work, and for properly making all the connections therewith, and also all the electrical connections for and with the various panel appliances specified hereinbefore on the board, and in general, for all electrical connections requisite both at the front and at the back of the switchboard.

Bus-bar Work.

538. The Contractor shall furnish and install the busbars and connecting bars requisite and necessary for the switchboard connections.

The design and essential features of the busbars and connecting bars are sufficiently shown or indicated on the Plan No. 1056 E to furnish the Contractors all data necessary for preparing the estimates and proposals.

The Contractor shall estimate upon and provide for all bars, strips, lugs, clamps, cables, wires, etc., and all other materials necessary for the busbar work and the connections, using the most improved and perfect ones of each kind, and he shall furnish all labor necessary to put the whole in complete and perfect order.

The materials used for the busbars shall be either rolled or drawn copper of conductivity not less than 95 per cent.

The sectional area of all conducting parts shall be sufficient to keep the current density at any part below 800 amperes per square inch.

The current density of moving and stationary contacts shall be as specified hereinbefore.

All joints and connections shall be made firmly and securely, so as to obviate all derangements or undue heating under maximum normal currents.

Due and ample precautions shall be taken in design and arrangement of contacts, joints and conductivity in the connecting parts.

A working drawing of the busbar work, giving full details, including dimensions, of each busbar, connecting bar or strip, must be submitted to and approved by the Architects before the said busbar work is executed.

The busbar connections are shown diagramatically on the plan.

Connecting Bars.

539. The connections for and between the feeder switches, fuse holders, feeder busbars, etc., shall be made by means of drawn or rolled copper bars or strips.

The arrangement and disposition of the said connecting bars is clearly shown upon, and can be readily understood from Sheet No. 1056 E.

Feeder Extension Bars.

540. The Contractor shall provide and install extension bars, for each of the 360 feeder connections, as indicated on the section, through Feeder Panels, on Plan. These bars shall be of copper of the highest commercial conductivity and shall be calculated for the section area and contact surface, using the allowances stated in previous clause. Bars shall be bent in position and be firmly and adequately braced.

Connecting Lugs.

541. The Contractor shall provide suitable connecting lug for each and every pole of every switch or other appliance requiring such lug for feeder or lead-end connection at the switchboard.

For feeder terminals the connecting lugs shall be, in all cases, of the straight or bent type, as directed.

The material, proportion, contact surface, conductivity, etc., shall be in compliance with the requirements prescribed for switches and busbar work. The opening for receiving the conductor in each case shall be determined as shall be directed at the building.

The Contractor shall provide connecting lugs of the right kind and form for each purpose.

Bus-bar Connections.

542. All connections for and between all appliances intended and serving for carrying large currents shall, in every case, be made by means of special hard drawn or forged copper bars, of proper length and form, of sectional area and contact surface calculated on the same basis as specified for the knife switches and the busbar work.

Feeder Connections.

543. The Contractor shall include in his proposal all the labor and materials necessary for connecting all the incoming and outgoing lighting and power feeder conductors to the switchboard in a proper approved manner.

The Contractor shall provide and install in the floor directly under the sixteen (16) main supply feeder connections, forty-two (42) iron conduit bushed tubes or bushings, through which the supply feeder conductors shall pass from the open space under floor to the feeder terminal lugs on the switchboard.

The exact size, arrangement and manner of installing these feeder bushings and the manner in which all feeder connections shall be made shall be as directed by the Architect.

Insulation.

544. Insulation will be required for all the long studs extending to switches on feeder panels, and for the fuse terminals on the feeder fuse boards. This installation shall consist of tubes of vulcanized fiber, or other equally good approved insulating material, with internal diameter suitable to fit snugly over the said conducting studs. Total number of tubes required is 404.

Polarity Relations.

545. The location, arrangement and connections of busbars and switches must, as far as possible and practicable, conform to the following rule: When the switchboard attendant stands in front of and looks toward the board, the positive poles of all busbars set horizontally, or of all switches swinging (from side to side) on vertical axis, shall be "up" or "topmost," and the negative pole shall be "lowermost," and the positive poles of all busbars set vertically, and of all switches swinging on horizontal axis shall be at the right hand, and the negative pole shall be at the left hand.

Painting.

546. The Contractor shall properly paint and finish all angle iron fastenings or supports of the switchboards, and all such other parts of the frame, connections, etc., or such appliances as may require it.

Name Plates.

547. The Contractor shall provide for each switch a suitable engraved name plate, set near thereto, to designate the function and purpose of the switch.

There shall be a duplicate set of all name plates for all the feeders; one set shall be placed on the face panel or near the corresponding switch, and one set shall be placed on the fuse board near the fuse blocks corresponding to said feeder.

The name plates shall be of material and finish harmonizing with the metal work of the switchboard appliances.

All name plates on the switchboard panels shall be of copper and shall have special gun metal finish.

All name plates for the fuse boards shall be of hard rubber.

The letters and figures on the name plates shall, in every case, be engraved in plain block letters and shall be enameled in white.

The inscription required for each name plate is given in the schedule on sheet No. 1056-E.

Fuses.

548. The Contractor shall provide three (3) complete sets of fuses for all feeder circuits for the switchboard.

All fuses of 100 amperes and over shall be of copper.

The terminal pieces of all fuses shall be extra heavy and shall have ample surface contact.

All fuses must be rated and tested under the conditions at which they will operate. The Contractor shall replace all defective fuses.

Special Information.

549. The Architects will furnish the Contractor at the time the switchboard is installed and the connections are being made any special information, instructions or diagrams necessary and requisite for the proper guidance of the Contractor in making the various connections for or with the outfit of appliances hereinabove specified.

(D) Additional Switches on Basement Mezzanine Switchboard.

550. The Contractor shall include in his proposal all the labor and materials necessary for replacing four (4) of the 200-ampere D. P. S. T. power feeder switches on the main service switchboard, located on basement mezzanine floor of the building with four (4) new 400-ampere D. P. S. T. knife switches, completely equipped with new rear connected fuse terminals, etc.

The general construction of these knife switches and size and arrangement of all bus-bars, connections, etc., shall be as specified in paragraph 535.

The time and manner in which these switches are to be installed shall be as directed by the Architects.

Definite Contract.

551. Item (1) of the contract covers all the work and construction as shown on the plans and described in these Specifications as being a part of the Definite Contract, which includes all work not covered by the contract units. A lump sum must be bid for all the work and construction included in this item.

Contract Units.

General.

552. The contract units referred to hereinbefore, under which all work not provided under the definite contract must be installed, are listed below with a description giving the scope of each unit. The unit prices must in every case cover the complete installation of the work. For the guidance of the Contractor, the estimated quantities of the various units are also given. The quantities are approximate and are given merely as a basis to assist the Contractor in determining the proper value of the units and for the comparison of bids. The bids in every case must be for a unit and not a lump sum based on the approximate estimated quantities given. The work paid for will be the actual amount installed in each case as determined at the building.

General Units.

	Quantities.
(2) Steel door bucks in openings in hollow tile partitions. The price to be complete per opening and shall include angle connections for head pieces, cutting and drilling for other work, concrete leveling under bottom members, and any necessary lathing to receive plaster:	
A. For heights up to and including 13 feet	1,852
B. For heights over 13 feet up to and including 14 feet	12
C. For heights over 14 feet	95
(3) Steel brace posts in hollow tile partitions. The unit shall include angle connections for head pieces, cutting and drilling and lathing to receive plaster:	
A. For heights up to and including 13 feet	3,679
B. For heights over 13 feet up to and including 14 feet	25
C. For heights over 14 feet	130
(4) Steel head pieces over partition sash. The unit shall include cutting and drilling and bolting to other work	20,466 lin. ft.
(5) Hollow tile partitions, price, actual measurement, including cutting, patching, etc	399,321 sq. ft.
(6) Hollow tile furring less than 4 inches thick, actual measurement, including cutting, patching, etc	29,721 sq. ft.
(7) Cinder concrete fill on fireproof floor arches of required depth, including finished Portland cement mortar top to receive asphalt floors	58,069 sq. ft.
(8) Stone concrete fill on fireproof floor arches of required depth, ready to receive mosaic and tile	98,989 sq. ft.
(9) Miscellaneous finished floors:	
A. Cement floor, including cinder concrete base from floor arch up	454,037 sq. ft.
B. Rock asphalt (asphalt only)	58,069 sq. ft.
C. Cork floor, including cinder concrete and all foundation from floor arch up	34,182 sq. ft.
D. Cork cove base and scribing piece, set complete	2,638 lin. ft.
(10) Waterproofing floors, including vertical work on walls and mortar leveling under same to provide a smooth surface	14,598 sq. ft.
(11) Copper sleeves around pipes through waterproofing	104
(12) Iron furring and lathing:	
A. Vertical surfaces	49,280 sq. ft.
B. Horizontal surfaces	65,176 sq. ft.
C. Metal corner bead, set complete	29,644 lin. ft.
(13) Wall plastering, including patching:	
A. On masonry	78,071 sq. yds.
B. On lathing	5,476 sq. yds.
C. Keene cement in toilets on masonry	2,359 sq. yds.
D. Keene cement in toilets on lath	79 sq. yds.
(14) Ceiling plastering, including patching:	
A. On masonry	61,490 sq. yds.
B. On lathing	7,329 sq. yds.
C. Keene cement in toilets on masonry	403 sq. yds.
D. Keene cement in toilets on lath	631 sq. yds.
(15) Hollow metal cornice, including access sections and framing	15,844 lin. ft.
(16) Corridor marble and mosaic work, price to include setting, setting materials and cutting and fitting:	
A. Marble wainscot dado	58,312 sq. ft.
B. Marble wainscot base	11,287 lin. ft.
C. Marble wainscot cap	11,287 lin. ft.
D. Marble door architraves	14,178 lin. ft.
E. Marble architrave plinths	1,318
F. Marble door jamb linings	1,318
G. Marble mosaic floor with border	74,164 sq. ft.
(17) Toilet room, glass, marble and mosaic work, price to include setting, setting materials and cutting and fitting:	
A. Glass wainscot work	2,517 sq. ft.
B. Glass partitions	4,667 sq. ft.
C. Marble partition cap	725 lin. ft.
D. Marble door stiles to water closet compartments	1,197 lin. ft.
E. Marble window sills	300 lin. ft.
F. Marble safes under water closets	102
G. Marble door trims, 6 inches wide	1,521 lin. ft.
H. Marble mosaic floor, no border	9,347 sq. ft.
I. Marble complete for one 2-stall urinal	1
J. Marble base	1,821 lin. ft.
(18) Slop sink closet work:	
A. Marble wainscot	4,000 sq. ft.
B. Marble floor safes under sinks	49
C. Tile floors	1,542 sq. ft.
(19) Slate work in connection with asphalt floors, no steel:	
A. Base	9,020 lin. ft.
B. Plinth blocks	330
(20) Marble saddles:	
A. Corridor marble	2,463 lin. ft.
B. Toilet and slop sink closet marble	241 lin. ft.
C. To asphalt floors	557 lin. ft.
(21) Miscellaneous base and plinths in connection with a steel base and trim:	
A. Marble base	55,429 lin. ft.
B. Marble plinths under trim	6,082
C. Marble plinths under door jambs	3,890
(22) Isolated lavatories in offices, etc.:	
A. Marble wainscot, including returns to wall	26,430 sq. ft.
B. Marble cap over A, 2¼x1⅜ inches	3,474 lin. ft.
C. Marble cap over A, 6x1⅜ inches	678 lin. ft.
D. Marble floor slabs	2,494 sq. ft.
(23) Miscellaneous mosaic floors:	
A. Private stair halls	467 sq. ft.
B. Miscellaneous public spaces	13,404 sq. ft.
(24) Hollow metal picture molding, including grounds	28,000 lin. ft.
(25) Hollow metal partition sash, frames and trim to be measured over all of trim, with glass, hardware and grounds, set and finished complete:	
A. Corridor openings, stationary	11,495 sq. ft.
B. Corridor openings, pivoted	11,495 sq. ft.
C. Interior openings, stationary	30,408 sq. ft.
D. Interior openings, pivoted	30,409 sq. ft.
E. Corridor openings, single light sash (50 per cent. pivoted)	369 sq. ft.
(26) Hollow metal base, including grounds, set and finished complete	55,395 lin. ft.
(27) Hollow metal pipe shaft and valve pocket doors, including frames, trim, grounds and setting of hardware, all complete	25
(28) Hollow metal water closet compartment and retiring room doors, including setting of hardware, all complete	123
(29) Hollow metal wicket openings, price to include frame, trim, reinforcement for grilles and shelf, and punching	26
(30) Hollow metal doors, including either glass or metal panels, with jambs, transom and transom sash, but no architrave trim, to include grounds, setting of hardware and any necessary drilling and tapping of rough steel, measurements to be taken inside of jambs:	
A. Openings 3 feet or less in width by 10 feet or less high	544
B. Openings 3 feet or less in width and over 10 feet to and including 11 feet 6 inches high	188
C. Openings 3 feet or less in width and over 11 feet 6 inches high.	2
D. Openings over 3 feet up to and including 3 feet 6 inches in width by 10 feet or less in height	773
E. Openings over 3 feet up to and including 3 feet 6 inches in width and over 10 feet up to and including 11 feet 6 inches high	260
F. Openings over 3 feet up to and including 3 feet 6 inches in width and over 11 feet 6 inches high	17
G. Openings over 3 feet 6 inches in width (double doors) by 10 feet or less high	3
H. Openings over 3 feet 6 inches in width (double doors) and over 10 feet up to and including 11 feet 6 inches high	6
I. Openings over 3 feet 6 inches in width (double doors) and over 11 feet 6 inches high	14
(31) Hollow metal doors, including either glass or metal panels and jambs and heads, but without transom bars or sash and without architrave trims, to include grounds, setting of hardware and any necessary drilling or tapping of rough steel, measurements to be taken inside of jambs:	
A. Openings 3 feet or less in width by 7 feet 4 inches high	110
B. Openings over 3 feet up to and including 3 feet 6 inches in width by 7 feet 4 inches high	23
C. Openings over 3 feet 6 inches in width (double doors) by 7 feet 4 inches high	6
(32) Hollow metal door architrave trims, one side only, to include grounds and plinths, measured between jambs and from finished floor level:	
A. Openings 3 feet 0 inches or less in width by 7 feet 4 inches high	138
B. Openings over 3 feet 0 inches up to and including 3 feet 6 inches in width by 7 feet 4 inches high	16
C. Openings 3 feet 0 inches or less in width and over 7 feet 4 inches up to and including 10 feet 0 inches high	1,072
D. Openings 3 feet 0 inches or less in width and over 10 feet 0 inches up to and including 11 feet 6 inches high	363
E. Openings 3 feet 0 inches or less in width and over 11 feet 6 inches high	4
F. Openings over 3 feet 0 inches up to and including 3 feet 6 inches in width by height for Unit 32-C	1,243
G. Openings over 3 feet 0 inches up to and including 3 feet 6 inches in width by height for Unit 32-D	374
H. Openings over 3 feet 0 inches up to and including 3 feet 6 inches in width by height for Unit 32-E	30
I. Openings over 3 feet 6 inches up to and including 7 feet 0 inches in width (double doors) by 10 feet 0 inches or less in height.	4
J. Openings over 3 feet 6 inches up to and including 7 feet 0 inches in width (double doors) and over 10 feet 0 inches up to and including 11 feet 6 inches high	6
K. Openings over 3 feet 6 inches up to and including 7 feet 0 inches in width (double doors) and over 11 feet 6 inches high	14
(33) Finishing hardware to be applied under the units for hollow metal doors before specified:	
A. Doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders	1,003
B. Doors, interconnecting type locks, hardware complete, except door checks, stops and holders	626
C. Double doors, office entrance corridor type locks, hardware complete, except door checks, stops and holders	29
D. Doors, uniform type locks, hardware complete, except door checks, stops and holders, for entrance doors from vestibules or passages, to toilet rooms, slop sink closets, storage and filing spaces, and closets	254
E. Doors, uniform type latches operated by knobs only from both sides (no key), hardware complete, except door checks, stops and holders, for doors between vestibules to toilet rooms and corridors	27
F. Doors to intercommunicating stairs, hardware complete, except door checks, stops and holders	11
G. Water closet compartment doors, hardware complete	98
H. Retiring room doors, hardware complete	23
I. Pipe shaft and valve pocket doors, hardware complete	25
J. Doors to pipe spaces, hardware complete	2
K. Door stops	165 doz.
L. Door checks (equal to No. 4 Blount size)	1,312
M. Door holders, price per dozen	109 doz
(34) Painting cement floors with paper protection	462,800 sq. ft.

Plumbing Units.

The unit prices shall be per fixture installed complete with waste, vent and supply connections. These units apply only to fixtures to be set outside the definite contract spaces.

	Quantities.
(35) Water closets:	
A. Water closets of type specified	69
B. Water closets to conform to the specification, but with back outlets	33
(36) Urinals	2
(37) Lavatories with drinking water connections:	
A. Within 5 feet of stack	503
B. Beyond 5 feet and less than 15 feet of stack	236
C. Beyond 15 feet of stack	66
(38) Lavatories without drinking water connections:	
A. Within 5 feet of stack	166
B. Beyond 5 feet and less than 15 feet of stack	22
C. Beyond 15 feet of stack	3

Note—Where lavatories are in batteries of two or more the distance from the

stack shall be measured to the nearest lavatory in the battery and all others shall be considered within five feet of stack.

	Quantities.
(39) Slop sinks	49
(40) Vacuum outlets:	
A. Within 5 feet of riser	125
B. Beyond 5 feet and less than 15 feet of riser	22
C. Beyond 15 feet of riser	8
(41) Gas outlets:	
A. Within 5 feet of riser	3
B. Beyond 5 feet and less than 15 feet of riser	8
C. Beyond 15 feet of riser	29
Electric Units.	
(42) Ceiling outlets	4,500
(43) Bracket outlets	1,800
(44) Insertion plug outfits, including outlet box	2,500
(45) Local push-button switch, including outlet box	2,500
(46) Wall receptacle, including outlet box	300
(47) Floor outlet boxes for lighting system	1,500
(48) Floor outlet boxes for interconnection system	1,000
(49) Ceiling extension outlets	500
(50) Junction boxes for branch circuit connections	300
(51) 10 branch circuit cutout panels. (See Panels I, J, K, L, M, N, O, P, Q and R, listed on Sheet No. 1054-E)	236
(52) Empty telephone cabinets. For size see Sheet No. 1055-E	276
(53) Floor interconnection boxes. See boxes Nos. 1 to 12, inclusive, listed on Sheet No. 1055-E	276
(54) Outlet boxes for wall telephones	1,000
(55) No. 14 duplex wire installed in ½-inch conduit, including conduit	500,000 lin. ft.
(56) No. 12 duplex wire installed in ¾-inch conduit, including conduit	100,000 lin. ft.
(57) Three No. 8 conductors installed in 1-inch conduit, including conduit. (See schedule of floor mains on Sheet No. 1052 E.)	548 lin. ft.
(58) Three No. 6 conductors installed in 1¼-inch conduit, including conduit. (See schedule of floor mains on Sheet No. 1052 E.)	1,120 lin. ft.
(59) Three No. 5 conductors installed in 1¼-inch conduit, including conduit. (See schedule of floor mains on Sheet No. 1052 E.)	8,102 lin ft.
(60) Three No. 3 conductors installed in 1½-inch conduit, including conduit. (See schedule of floor mains on Sheet No. 1052 E.)	8,112 lin. ft.
(61) Three No. 2 conductors installed in 1½-inch conduit, including conduit. (See schedule of floor mains on Sheet No. 1052 E.)	3,867 lin. ft.
(62) Empty conduit, ½-inch size	20,000 lin. ft.
(63) Empty conduit, 1½-inch size	3,500 lin. ft.
(64) Service boxes complete, including all connections. See Sheet No. 1055 E for design and size	2,000
(65) 10 wire service line consisting of ten No. 18 rubber-covered wires installed in 1-inch conduits, including conduit	100,000 lin. ft.
(66) 10 No. 14 wire cable installed in 1¼-inch conduit, including conduit	34,800 lin. ft.
(67) 50 wire cable installed in 1¼-inch conduit, including conduit. See cables Nos. 1 to 12, inclusive, on Sheet No. 1053-E	25,000 lin. ft.
(68) Empty 1-inch conduit installed under door saddles connecting each end with a small pull box to be located behind top member of baseboard at each side of door, including pull boxes. See Sheet No. 1055-E	1,932
(69) Empty ¾-inch conduit originating at pull box near ceiling and terminating at a pull box located behind top member of baseboard, including pull boxes. See Sheet No. 1055-E	1,300

The unit price in each case shall include all the labor and materials necessary for the installation and completion of the work.

All the work to be installed on the unit price basis shall be installed in accordance with detail drawings prepared by the Architects. The quantities shall be checked in a manner to be directed by the Architects and approved by the Commissioner.

No.....

DEPARTMENT OF BRIDGES, THE CITY OF NEW YORK.

CONTRACT AND SPECIFICATIONS FOR THE INTERIOR FINISH OF THE MUNICIPAL BUILDING, EXCLUSIVE OF THE TOWER.

....., Contractor.
Dated....., 1912.
Assigned to.....
Approved as to form....., Acting Corporation Counsel.
Dated....., 1912.
Examined and found correct....., Contract Clerk.
Entered in the Comptroller's Office,
....., 1912.
....., First Assistant Bookkeeper.

March 30, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment held on January 4, 1912, the Commissioner of Bridges submitted to the Board plans and specifications for the interior finish of the Municipal Office Building, which were referred to the Comptroller and the Chief Engineer of the Board for consideration and report.

The plans cover all of the details for the interior finish, and both plans and specifications are necessarily voluminous. They have been discussed in every detail at frequent conferences between representatives of the Department of Finance, the Engineering staff of the Board, the Department of Bridges, the Architects and the experts on mechanical, electrical, plumbing, sanitary and other features associated with the Architects. A number of suggestions have been made, and in nearly every case adopted by the Department of Bridges.

In view of the fact that the final subdivision of the space assigned to the different Departments cannot well be accurately determined, a somewhat novel plan has been followed in the specifications, viz.: The work on the lower floors containing the concourse and the entrance halls and stairways, and that portion of the building on all floors in which are located the elevators, the central halls, toilet rooms, etc., is to be bid for in one lump sum, while the remainder of the work is to be bid for on a unit price basis. The schedule of unit prices is very complete and will cover any possible contingency, and will also permit compliance with the special needs of the different Departments as these may develop during the progress of the work.

While the plans and specifications call for thoroughly good materials and workmanship, we do not believe that they are extravagant, but are suited to a modern office building. All of the materials are thoroughly fireproof, the only wood in the entire building being a stair rail from the street level to the top of the building.

The estimated cost of the work to be covered by this contract is $3,190,000.

We believe that the plans and specifications are exceptionally complete, and that they can properly be approved by the Board, and that the Bridge Commissioner may be authorized to enter into a contract, and such action is hereby recommended. Respectfully submitted,

WM. A. PRENDERGAST, Comptroller; NELSON P. LEWIS, Chief Engineer, Board of Estimate and Apportionment.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 670 of the Laws of 1907, hereby approves of the form of contract, plans and specifications for the interior finish of the Municipal Building, under the jurisdiction of the Department of Bridges, at an estimated cost of three million one hundred and ninety thousand dollars ($3,190,000).

Which was adopted by the following vote:

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

The Secretary presented the following communication from the Board of Education relative to and report of the Corporate Stock Budget Committee recommending that the resolution adopted July 17, 1911, authorizing the issue of $225,000 corporate stock to provide means for the payment of salaries and wages of Inspectors and Draftsmen in the Bureau of Buildings, Department of Education, be amended, by substituting for Inspectors and Draftsmen the words "Inspecting and Drafting Corps," which will cover the force of the Bureau of Buildings and at the same time keep the uses of the appropriation within specified limits;

(On March 21, 1912, the resolution of the Board of Education requesting the amendment of the above corporate stock authorization by adding thereto the words "and other employees," was referred to the above Committee.)

Board of Education, Park Avenue and 59th Street, New York, March 14, 1912.

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

Dear Sir—I have the honor to transmit herewith certified copies of a resolution adopted by the Board of Education at a meeting held on the 13th instant, relative to amending resolutions adopted by the Board of Estimate and Apportionment and the Board of Aldermen authorizing the issue of corporate stock to the amount of $225,000 for the payment of salaries and wages of Inspectors and Draftsmen, etc.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Resolved, That the Board of Estimate and Apportionment and the Board of Aldermen be and they are hereby respectively requested to amend the resolutions adopted by said Boards on July 17, 1911, and July 31, 1911, respectfully, authorizing an issue of corporate stock to an amount not exceeding two hundred and twenty-five thousand dollars ($225,000) to provide means for the payment of the salaries and wages of Inspectors and Draftsmen in the Bureau of Buildings, etc., etc., so as to include "salaries and wages of Inspectors and Draftsmen *and other employees* in the Bureau of Buildings."

A true copy of resolution adopted by the Board of Education on March 13, 1912.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 13, 1912, the Board of Education requested amendment of a resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, and by the Board of Aldermen on July 31, 1911, authorizing $225,000 in corporate stock for the payment of the "salaries and wages of Inspectors and Draftsmen in the Bureau of Buildings" by adding thereto the words "and other employees." In connection therewith we report as follows:

The request was made at the suggestion of the Chief Auditor of the Department of Finance, who deems it necessary to make the title of the account more inclusive in order to cover an expert Blue Printer, a Mason and several other employees whose names appear on the payrolls to which the appropriation in question is applicable, but whose titles do not strictly conform to the wording of the resolution. These men properly belong to the inspecting and drafting staff of the Building Bureau and are so schedule in Budget, and have always been paid from this account.

Instead of adding the words "and other employees," as requested, we recommend that the words, "the inspecting and drafting corps," be substituted for "inspectors and draftsmen." This will cover the force of the Bureau, and at the same time keep the uses of the appropriation within specific limits.

We recommend that the resolution be amended as suggested by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting 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 31, 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 two hundred and twenty-five thousand dollars ($225,000), to provide means for the payment of the salaries and wages of *Inspectors and Draftsmen* in the Bureau of Buildings, Department of Education, 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 two hundred and twenty-five thousand dollars ($225,000), to provide means for the payment of the salaries and wages of the *inspecting and drafting corps* in the Bureau of Buildings, Department of Education, 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Corporate Stock Budget Committee to the Board of Education.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted June 3, 1910, authorizing the issue of $12,000 corporate stock for the purpose of providing means for reconstructing the timber fender piers of the Willis Avenue Bridge over the Harlem River be amended by reducing said amount to $4,000, and further recommending an additional authorization of $3,000 corporate stock for the electrical equipment of the Third Avenue Bridge and $3,000 corporate stock for the electrical equipment of the Willis Avenue Bridge:

(On March 28, 1912, a communication from the Commissioner of Bridges, relative to providing additional means for the electrical equipment of the Willis Avenue and Third Avenue Bridges over the Harlem River was referred to the above Committee.)

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, March 25, 1912.

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

Gentlemen—On July 17, 1911, your Board authorized the issue of $13,500 of corporate stock for the electrical equipment of the Third Avenue Bridge over the Harlem River, and also authorized the issue of $13,500 of corporate stock for the electrical equipment of the Willis Avenue Bridge over the Harlem River. On February 8, 1912, your Board approved the plans, specifications, form of contract and estimate of cost for the electrical equipment of these two bridges.

Bids were received at this office on March 21, 1912, for this work, as follows:

The Snare & Triest Company, 143 Liberty street, New York City—	
Item A. Electrical equipment, Third Avenue Bridge	$15,920 00
Item B. Electrical equipment, Willis Avenue Bridge	15,920 00
Total	$31,840 00
Cooper & Evans Company, 220 Broadway, New York City—	
Item A. Electrical equipment, Third Avenue Bridge	$19,340 00
Item B. Electrical equipment, Willias Avenue Bridge	18,450 00
Total	$37,790 00

Owing to the difficulty of making the alterations in these bridges and maintaining traffic at the same time, the work is rendered somewhat uncertain in cost so far as estimating is concerned. Although a large number of inquiries were received from prospective bidders only two as above noted presented bids. It is urgent that this work be proceeded with at the earliest possible time, as the Tax Levy Budget for the year 1912 provides only until July 1, 1912, for the coal needed for the boilers at present used in the operation of the bridges, and for the necessary labor connected with the use of the boilers.

In the corporate stock fund for the Reconstruction of the Timber Fender Piers of the Willis Avenue Bridge is a balance of $8,000, par value, which fund is no longer required, as the work on the fender piers has been completed. In the statement submitted to your Board on January 4, 1912, this fund was included in Schedule "C"—Rescindments. The fund, however, has not yet been rescinded.

In order that the contract for which bids were received March 21, 1912, may be awarded and certified, I beg to request your Honorable Board to modify resolutions authorizing corporate stock as follows:

1. Resolution adopted June 3, 1911. "* * * 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 $12,000, in addition to the amount heretofore authorized for the purpose of providing means for the reconstruction of the timber fender piers of the Willis Avenue Bridge over the Harlem River * * *" to read "to an amount not exceeding $6,000."

2. Resolution adopted July 17, 1911, "* * * 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 $13,500 to provide means for the electrical equipment of the Third Avenue Bridge over the Harlem River * * *" to read "to an amount not exceeding $16,500."

3. Resolution adopted July 17, "* * * 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 $13,500 to provide means for the electrical equipment of the Willis Avenue Bridge over the Harlem River * * *" to read "to an amount not exceeding $16,500."

The above modifications will not increase the total amount of corporate stock authorized for the use of the Department of Bridges. Yours truly,

WM. H. SINNOTT, Deputy Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, April 3, 1912.

To the Board of Estimate and Apportionment:

Gentlemen—On March 25, 1912, the Commissioner of Bridges requested the amendment of three corporate stock authorizations for his Department, involving no change in the total of the three accounts. 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, adopted resolutions approving the following issues of corporate stock:

For Electrical Equipment of Third Avenue Bridge over the Harlem River	$13,500 00
For Electrical Equipment of Willis Avenue Bridge over the Harlem River	13,500 00

The plans, specifications, form of contract and estimate of cost for the improvements have been approved by your Board.

The Commissioner states the following:

Bids were received at this office on March 21, 1912, as follows:

The Snare & Triest Co., 143 Liberty street, New York City:	
Item (a), Electrical Equipment, Third Avenue Bridge	$15,920 00
Item (b), Electrical Equipment, Willis Avenue Bridge	15,920 00
Total	$31,840 00
Cooper & Evans Co., 220 Broadway, New York City:	
Item (a), Electrical Equipment, Third Avenue Bridge	$19,340 00
Item (b), Electrical Equipment, Willis Avenue Bridge	18,450 00
	$37,790 00

Owing to the difficulty of making the alterations in these bridges and maintaining traffic at the same time, the work is rendered somewhat uncertain in cost so far as estimating is concerned. Although a large number of inquiries were received from prospective bidders only two, as above noted, presented bids. It is urgent that this work be proceeded with at the earliest possible time, as the Tax Levy Budget for the year 1912 provided only until July 1, 1912, for the coal needed for the boilers at present used in the operation of the bridges, and for the necessary labor connected with the use of the boilers.

For the foregoing reasons it is proposed that the authorizations for the two bridges be amended by increasing the amount authorized for each bridge from $13,500 to $16,500, the $6,000 necessary to be made available by a corresponding decrease in the authorization for the reconstruction of timber fender piers of the Willis Avenue Bridge. The sum of $12,000 was approved for this purpose by the Board of Estimate and Apportionment on June 3, 1910, and concurred by the Board of Aldermen on July 28, 1910. Of the amount only $4,000 has thus far been alloted, and the fund therefore shows an unalloted balance of $8,000.

In the departmental corporate stock estimate for 1912 the $8,000 unalloted balance is recommended for rescindment.

We recommend, therefore, the adoption of the attached resolutions increasing the amounts authorized for the electrical equipment of the Willis Avenue Bridge and the Third Avenue Bridge by $3,000 each, and decreasing the amount authorized for reconstruction of the timber fender piers of the Willis Avenue Bridge by $8,000, thus decreasing the total amount authorized for the Department of Bridges by $2,000. Respectfully,

WM. A. PRENDERGAST, Comptroller; A. L. KLINE, Acting 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 June 3, 1910, and concurred in 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 *twelve thousand dollars* ($12,000), in addition to the amount heretofore authorized, for the purpose of providing means for the reconstruction of the timber fender piers of the Willis Avenue Bridge over the Harlem River, 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 an amount not exceeding *twelve thousand dollars* ($12,000), the proceeds whereof to be applied to the purpose aforesaid."

—be amended to make the amount authorized *four thousand dollars* ($4,000).

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

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 the amount heretofore authorized, to provide means for the electrical equipment of the Third Avenue Bridge over the Harlem River, under the jurisdiction of the Department 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 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

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 the amount heretofore authorized, to provide means for the electrical equipment of the Willis Avenue Bridge over the Harlem River, under the jurisdiction of the Department 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 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 Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

The Secretary presented a resolution of the Board of Aldermen requesting that the heads of the several City departments grant to per diem employees the full allotment of vacation time permitted under chapter 679 of the Laws of 1910, to wit, two weeks, and further, that if additional help be required to permit of said action for which no existing appropriation has been made, the heads of departments make application for the issue of special revenue bonds to meet said emergency.

Which was ordered filed.

—

The Secretary presented the following communication from the Commissioner of Public Works, Borough of Brooklyn, submitting for the consideration of the Board the matter of the award of contract for the construction of a comfort station at the Williamsburg Bridge Plaza, to the second lowest bidder, and recommending the adoption of a resolution authorizing the President of the Borough of Brooklyn to award the contract to Daniel J. Ryan, next to the lowest bidder, at the sum of $20,998:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, April 15, 1912.

The Honorable the Board of Estimate and Apportionment:

Gentlemen—Under date of March 13 bids were received in this office for the construction of a comfort station at the Williamsburg Bridge Plaza, at which time the following bids were received:

William J. Moran, Incorporated	$14,997 00
Daniel J. Ryan	20,998 00
Thos. J. Buckley Construction Company	21,699 00
Kelly and Kelly, Incorporated	22,650 00
Thomas McKeown, Incorporated	22,900 00
Richard Hemingham	22,950 00
J. M. Knopp	23,111 00
Robinson & Webber	24,300 00
P. J. Carlin Construction Company	25,575 00
Harrington & Tobey	26,990 00
Newman, Carey Company	27,250 00
R. Solomon & Son	27,747 00

Immediately after these bids were opened, the lowest bidder, William J. Moran, Inc., submitted a communication as follows:

"Brooklyn, N. Y., March 13, 1912.

"*Hon.* ALFRED E. STEERS, *Borough President, Borough Hall, Brooklyn, N. Y.:*

"Dear Sir—We herewith respectfully ask your permission to withdraw our proposal for the erection of the comfort station on Havemeyer street, west side, about 35 degrees north of South 5th street, Borough of Brooklyn, City of New York, N. Y., as we have made a very serious mistake in our addition to the amount of ten thousand dollars ($10,000), making our proposal the sum of twenty-four thousand nine hundred and ninety-seven dollars ($24,997), instead of fourteen thousand nine hundred and ninety-seven dollars ($14,997), as stated in our proposal.

"We sincerely trust that you will kindly allow us to withdraw our proposal, as it would be impossible to execute the contract at that price.

"Yours respectfully,

"WM. J. MORAN, Incorporated, W. J. COLVIN."

Mr. Moran's representative called at this office and showed his figures, from which it appeared that in making the addition he overlooked a figure which resulted in a mistake in his bid to the amount of ten thousand dollars.

The Corporation Counsel has previously held that where a bidder makes a mistake in his bid and call attention to the fact before the contract is awarded, he may be released. I therefore submit the matter to your Board for your consideration and respectfully recommend the adoption of a resolution authorizing the President of the Borough of Brooklyn to award this contract to the next lowest bidder, Daniel J. Ryan, for the sum of $20,998. Yours very truly,

L. H. POUNDS, Commissioner of Public Works.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 419 of the Greater New York Charter, hereby authorizes the President of the Borough of Brooklyn to accept the bid of Daniel J. Ryan for the construction of a comfort station at the Williamsburg Bridge plaza, at his bid of twenty thousand nine hundred and ninety-eight dollars ($20,998), it being for the public interest that a bid other than the lowest should be accepted.

Which was adopted by the following vote:

Affirmative—The Deputy and Acting Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

—

The Secretary presented the following communication from the Comptroller, relative to the Work of Standardization, including Standardization of Salaries and Grades and recommending the issue of special revenue bonds therefor:

City of New York, Department of Finance, Comptroller's Office, April 17, 1912.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—For upwards of four years the Department of Finance, in co-operation with various City Departments, has had under way the introduction of modern methods of accounting in the several City Departments. This work was necessarily the first step taken to provide a basis for precise and efficient administration of all branches of the City's business.

Accounting reorganization has now progressed so far that all the City Departments are on a uniform basis where before they were each operating under a separate system of accounts. The departmental accounts are in harmony with those maintained by the Comptroller, and uniform documents, such as vouchers, requisitions, orders, and payrolls are in use. Considerable headway has also been made in the important work of installing expense accounts, as requested by the Board of Estimate and Apportionment in November, 1910. These expense accounts will show precisely the amounts currently expended for performing every distinct function of City work, and are invaluable aids both to administrators and to the Board of Estimate and the Board of Aldermen in making up the annual City Budget.

Systematizing the processes of auditing has cut down the time required for the passage of the bills in the Finance Department with resulting benefit to the City's trading credit.

Standardization of Supplies.

Important beginnings have been made in the standardization of supplies, which when completed will affect the manner in which upwards of $20,000,000 of City money is expended. Already the benefit of requiring uniform and definite specifications in making purchases has been convincingly shown.

Standardization of Salaries.

There remains to be undertaken the important work of establishing the rates of compensation for like service in the same departments and in several departments, and of providing a definite basis for salary promotion.

The Board of Estimate and Apportionment and the Board of Aldermen are continually confronted with the problem of dealing fairly with requests for salary increases without having before them complete and full information regarding the character of work performed by employees for whom such requests are made and by other employees doing like work. Even to learn the facts regarding the kind of work now performed by the various classes of City employees and the rates of pay they receive, if nothing more is done, in passing upon salary questions, will be of immense value.

The Civil Service Commission of the City of Chicago has made a beginning in the direction of salary standardization. For a year and a half experts of that Commission have been engaged in tabulating information regarding the work requirements of every city employee and setting up comparative tables of rates paid for similar service in the various departments of the city government. It is a singular fact that neither the Board of Estimate nor the Board of Aldermen has available to it classified, summarized information regarding the payrolls of the City which now aggregate the enormous total of more than $80,000,000 a year. Adjustment of salaries in one Department or for one position, without reference to other Departments and

other positions, must inevitably mean not only discrimination against the City, but discrimination against a large number of employees who fail to receive recognition.

Standardizing Purchasing Methods.

The City purchases supplies through seventy-five different purchasing agencies. No study has ever been made to determine the extent to which efficient practices employed by one agency are in use in another. Careless and inefficient purchasing continually means loss to the City, and cannot be corrected even by the standardization of specifications. Certain City Departments have made notable strides in improving methods of purchase. The steps taken by these Departments should be carefully studied and compared with the best practice in private business, as, for example, in large railroads, some of which maintain model purchasing bureaus, in order that all City purchases may be made under uniform methods of efficiency.

Standardizing Storekeeping Methods.

Stores worth millions of dollars are kept in the various Departments. Under improper storekeeping methods loss and waste must inevitably occur. Just as in purchasing, there is need for standardizing storekeeping methods and for ensuring proper custody of and control over the receipt and use of the City's stores.

Standardizing Office Practice.

Account keeping, while the most important, is only one branch of the routine work carried on in departmental offices. The preparation of contracts, filing of records, handling of correspondence, filing of correspondence, preparation of reports, statistical records, and numerous other activities engage the attention of the clerical forces. For each of these activities there are good and bad methods now in vogue in City government. For most of them there should be one standard best method universally adopted and ensuring equal economy and efficiency in their performance. Various labor-saving devices are now available for use in office work. In certain Departments these devices have been installed. In others, expensive and antiquated methods are still in use. A study of office equipment would undoubtedly afford a basis for numerous helpful suggestions. Mechanical devices now used in the preparation of payrolls in several Departments have effected large economies. If they are feasible in one Department they should be feasible in all, and the economy resulting from their use universally obtained.

Standardizing Reporting Practice.

Departmental reports are rarely in such form as to be of use either to city officials or to the public. Standardization of reports and the records underlying them is an important task which will materially advance the efficiency of city government.

Standardizing Work Methods.

A dozen different departments are large employers of labor, a number of them performing work of exactly the same character. In each of these departments different methods of organization, supervision and record keeping, in relation to labor service, prevail. A study of methods employed in respect of departmental labor, and a comparison of costs where costs can be ascertained, will unquestionably show extensive opportunities for improving efficiency and obtaining economy, if only all departmental practices are brought to the level of the best prevailing in any of them. Additional economies can be obtained by scientific intensive studies of work methods and equipment along the lines of the motion studies now made in various industrial establishments.

Various other opportunities for the application of standard methods of efficiency exist but cannot be discussed in this brief report.

CONCLUSION.

The Board of Estimate and Apportionment having responsibility, in the first instance, for making the Budget of The City of New York, cannot discharge that responsibility with efficiency unless it is able to make its apportionments of public funds with the understanding that they will be expended with equal efficiency in every department, so far as equal efficiency can be obtained through the adoption of uniform methods. In cooperation with various city departments the Board has, through its Commission on Standardization of Supplies, taken a first step in improving administrative practice. This step should be followed by the establishment of an expert staff whose entire time will be given to the study and comparison of every aspect of departmental administrative practice, in order that with the cooperation of department heads and city employees generally, the Board of Estimate and Apportionment may determine and assist in the installation of the most efficient methods for performing every task of city government. For the purpose of establishing such a staff on an experimental basis for the remainder of the year 1912, it is suggested that a special issue of revenue bonds for fifty thousand dollars ($50,000) be authorized. To that end the attached resolutions are offered, with the recommendation that they be adopted. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the recommendations of the Comptroller contained in the report dated April 17, 1912, in reference to the provision of an expert staff for the Board of Estimate and Apportionment to enable it to conduct efficiency and standardization studies; and be it further

Resolved, That the Board of Aldermen be and is hereby requested to recommend to the Board of Estimate and Apportionment the authorization of an issue of special revenue bonds of The City of New York, pursuant to the provisions of subdivision 8, section 188 of the Greater New York Charter, in the sum of fifty thousand dollars ($50,000), to provide the necessary funds for the purpose of conducting studies of the efficiency of methods of administration employed by the various Departments in the conduct of City work, with a view to establishing uniform methods of efficiency so far as it is practicable.

Which was adopted by the following vote:

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

The Secretary presented the following report of the Committee on Standardization of Salaries and Grades, recommending that the resolution of October 5, 1911, which provided that all increases in salary be referred to the Committee on Standardization of Salaries and Grades, excepting that where decreases in the rate of individual salaries are made corresponding increases in other individual salaries in that department may be allowed, be modified so that it will be permissible to grant increases in salaries within the appropriation of the department:

April 17, 1912.

To the Honorable Board of Estimate and Apportionment:

Dear Sirs—At a meeting of the Board of Estimate and Apportionment held on October 5, 1911, the following resolution was adopted:

"Resolved, That the Committee of this Board on Standardization of Salaries and Grades, appointed by his Honor the Mayor on December 22, 1910, be continued, and that an appropriation be made in the Budget for 1912 for the work of this Committee; and be it further

"Resolved, That all requests for increases in salary submitted in the Budgetary estimates for the year 1912 be referred to this Committee for consideration and report; and be it further

"Resolved, That this Board defer action on such requests for salary increases until it shall have before it the report of the Committee on the Standardization of Salaries and Grades, which report the said Committee is hereby requested to submit not later than May 1, 1912; excepting that where decreases in the rate of individual salaries are made in the estimates of any Department, corresponding increases in other individual salaries in that Department may be allowed in the Budget for 1912; and be it further

"Resolved, That an appropriation be included in the Budget in such amount as the Board shall deem wise from which transfers may later be made as may be necessary to put the recommendations of the Committee on the Standardization of Salaries and Grades into effect."

Owing to the fact that the appropriation, which was included in the Budget, was cut out by the Board of Aldermen, the Committee on Standardization of Salaries and Grades was unable to carry on the proposed work as contemplated, and although quite a large number of the requested increases were considered and a report thereon will shortly be made, it is apparent at this time that it will not be possible for the Committee to submit a complete survey of the entire subject on the stipulated date of May first, and consequently the Committee feels that it is but just for the Board of Estimate and Apportionment to release itself from the rule which prevented the granting of increases excepting in such cases where corresponding decreases in individual salaries had been made in the same department.

The Committee is, however, of the opinion that no increases in individual salaries should be made which will add to the total of the appropriation of that Department, and that any increases shall be subject to the conditions adopted as part of the Budget of 1912.

The adoption of the attached resolution will carry into effect the recommendations of the Committee on Standardization of Salaries and Grades.

Respectfully submitted,

....., Comptroller; GEORGE McANENY, President, Borough of Manhattan; ALFRED E. STEERS, President, Borough of Brooklyn; Committee, Standardization of Salaries and Grades.

The following resolution was offered:

Resolved, That the following resolution adopted on October 5, 1911,

"Resolved, That the Committee of this Board on Standardization of Salaries and Grades, appointed by his Honor the Mayor on December 22, 1910, be continued, and that an appropriation be made in the Budget for 1912 for the work of this Committee; and be it further

"Resolved, That all requests for increases in salary submitted in the budgetary estimates for the year 1912 be referred to this Committee for consideration and report; and be it further

"Resolved, That this Board defer action on such requests for salary increases until it shall have before it the report of the Committee on the Standardization of Salaries and Grades, which report the said Committee is hereby requested to submit not later than May 1, 1912; excepting that where decreases in the rate of individual salaries are made in the estimates of any Department, corresponding increases in other individual salaries in that Department may be allowed in the Budget for 1912; and be it further

"Resolved, That an appropriation be included in the Budget in such amount as the Board shall deem wise, from which transfers may later be made as may be necessary to put the recommendations of the Committee on the Standardization of Salaries and Grades into effect,"

—be rescinded; and further be it

Resolved, That the Committee of this Board on Standardization of Salaries and Grades, appointed by his Honor the Mayor on December 22, 1910, be continued, and that all requests for increases in salary be referred to this Committee for consideration and report; and further be it

Resolved, That this Board shall grant only such increases of individual salaries as can be made within the appropriation of any Department and only in accordance with the conditions attaching to the Budget of 1912.

Which was adopted by the following vote:

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

On motion of the Comptroller the Board adjourned to meet Thursday, April 25, 1912, at 10.30 o'clock a. m.

JOSEPH HAAG, Secretary.

DEPARTMENT OF HEALTH.

RULES AND REGULATIONS RELATING TO THE SALE OF MILK.

GRADE A.

FOR INFANTS AND CHILDREN.

Guaranteed Milk.

Definition—Guaranteed milk is milk produced at farms holding permits therefor from the Board of Health, and produced and handled in accordance with the following minimum requirements, rules, and regulations.

REQUIREMENTS, RULES AND REGULATIONS:

1. Only such cows shall be admitted to the herd as have not re-acted to a diagnostic injection of tuberculin.
2. All cows shall be annually tested with tuberculin, and all re-acting animals shall be excluded from the herd.
3. No milk from re-acting animals shall be shipped to the City of New York for any purpose whatever.
4. The milk shall not contain more than 30,000 bacteria per c. c. when delivered to the consumer, or at any time prior to such delivery.
5. The milk shall be delivered to the consumer only in sealed bottles which have been sealed at the dairy, and shall be labeled with the day of the week upon which the earliest milking, of which the contents of the bottle form part, has been drawn.
6. The milk shall be delivered to the consumer within 36 hours of the time at which it was drawn.

Certified Milk.

Definition—Certified milk is milk certified by a milk commission appointed by the Medical Society of the County of New York, or the Medical Society of the County of Kings, as being produced under the supervision and in conformity with the requirements of that commission as laid down for certified milk, and sold under a permit therefor issued by the Board of Health.

No milk shall be held, kept, offered for sale, or sold and delivered as Certified Milk in the City of New York, which is produced under requirements less than those for Guaranteed Milk.

Inspected Milk—Raw.

Definition—Inspected milk (raw) is milk produced at farms holding permits therefor from the Board of Health, and produced and handled in accordance with the following minimum requirements, rules and regulations:

REQUIREMENTS, RULES AND REGULATIONS:

1. Only such cows shall be admitted to the herd as have not re-acted to a diagnostic injection of tuberculin.
2. All cows shall be tested annually with tuberculin, and all re-acting animals shall be excluded from the herd.
3. No milk from re-acting animals shall be shipped to the City of New York for any purpose whatsoever.
4. The farms at which the milk is produced must obtain at least 75 points in an official score of the Department of Health. These 75 points shall be made up as follows:

A minimum of 25 points for equipment, and 50 points for method.

5. The milk shall not contain more than an average of 60,000 bacteria per c. c. when delivered to the consumer, or at any time prior thereto.
6. Unless otherwise specified in the permit, the milk shall be delivered to the consumer only in bottles.

Selected Milk—Pasteurized.

Definition—Selected milk (Pasteurized) is milk handled and sold by dealers holding permits therefor from the Board of Health, and produced and handled in accordance with the following requirements, rules and regulations:

REQUIREMENTS, RULES AND REGULATIONS:

1. The farms at which the milk is produced must obtain at least 60 points in an official score of the Department of Health. Of these 60 points, a minimum of 20 points shall be required for equipment and a minimum of 40 points for method.
2. All milk of this grade shall be Pasteurized, and said Pasteurization shall be carried on under a special permit issued therefor by the Board of Health, in addition to the permit for "Selected Milk (Pasteurized)."
3. The milk shall not contain more than an average of 50,000 bacteria per c. c. when delivered to the consumer, or at any time after Pasteurization and prior to such delivery.
4. Unless otherwise specified in the permit, the milk shall be delivered to the consumer only in bottles.
5. All containers in which Pasteurized milk is delivered to the consumer shall be plainly labeled "Pasteurized." Labels must also bear the date and hour when Pasteurization was completed, the place where Pasteurization was performed, and the name of the person, firm or corporation performing the Pasteurization.
6. The milk must be delivered to the consumers within 30 hours after the completion of the process of Pasteurization.
7. No milk shall be Pasteurized more than once.
8. No milk supply averaging more than 200,000 bacteria per c. c. shall be Pasteurized for sale under the designation Selected Milk—Pasteurized.

GENERAL REGULATIONS FOR GRADE A.

1. The caps of all bottles containing milk of Grade A shall be white, and shall contain the words "Grade A" in black letters, in large type.
2. If cans are used for the delivery of milk of Grade A, the said cans shall have affixed to them white tags with the words "Grade A" printed thereon in black

letters, in large type, together with the designation "Inspected Milk (Raw)" or "Selected Milk (Pasteurized)," as the quality of the contents may require.

GRADE B.

FOR ADULTS.

Selected Milk—Raw.

Definition—Selected milk (raw) is milk handled and sold by dealers holding permits therefor from the Board of Health, and produced and handled in accordance with the following minimum requirements, rules and regulations:

REQUIREMENTS, RULES AND REGULATIONS:

1. Only such cows shall be admitted to the herd as have been physically examined by a regularly qualified veterinarian and declared by him to be healthy, and free from tuberculosis in so far as a physical examination may determine that fact. Such an examination of all cows shall be made at least once each year.

2. The farms at which the milk is produced must obtain at least 68 points in an official score of the Department of Health. These 68 points shall be made up as follows: A minimum of 25 points for equipment, and a minimum of 43 points for method.

3. The milk shall not contain an excessive number of bacteria when delivered to the consumer, or at any time prior thereto.

Pasteurized Milk.

Definition—Pasteurized milk (Grade B) is milk produced under a permit issued therefor by the Board of Health, and produced and handled in accordance with the following minimum requirements, rules and regulations and in further accordance with the special rules and regulations relating to the Pasteurization of milk.

REQUIREMENTS, RULES AND REGULATIONS:

1. All containers in which Pasteurized milk is delivered to the consumer shall be plainly labeled "Pasteurized." Labels must also bear the date and hour when the Pasteurization was completed, the place where Pasteurization was performed, and the name of the person, firm, or corporation performing the Pasteurization.

2. The milk must be delivered to the consumer within 36 hours after the completion of the process of Pasteurization.

3. No milk shall be Pasteurized more than once.

4. No milk containing an excessive number of bacteria shall be Pasteurized.

GENERAL REGULATIONS FOR GRADE B.

1. Caps of bottles containing milk of Grade B shall be white and marked "Grade B" in bright green letters, in large type.

2. Cans containing milk of Grade B shall have a tag affixed to each can with the words "Grade B" in large type, and the words of the subdivision to which the quality of the milk in the said can conforms.

GRADE C.

FOR COOKING AND MANUFACTURING PURPOSES ONLY.

Definition—Raw milk not conforming to the requirements of any of the subdivisions of Grade A or Grade B.

REQUIREMENTS, RULES AND REGULATIONS:

1. Milk of this grade shall not be sold at retail from stores.

2. Milk of this grade may be sold to restaurants, hotels, and manufacturing plants only.

3. Cans containing milk of Grade C shall be painted red on necks and shoulders, and shall have the words "Grade C" in large type affixed to each can.

All creameries handling milk of different grades will be required to demonstrate to the Department of Health that they are capable of keeping the grades separate, and must keep records satisfactory to the Department of Health concerning the amount of milk of each grade handled each day.

Condensed or Concentrated Milk.

Definition—This is milk of any grade or subdivision thereof from which any part of the water has been removed, or from which any part of the water has been removed and to which sugar has been added.

RULES AND REGULATIONS:

Milk of this designation shall be sold only under a permit issued therefor.

GENERAL RULES AND REGULATIONS.

Permits.

1. A permit for the sale of milk or cream, of any grade or designation, may be granted only after an application has been made in writing on the special blank provided for the purpose.

2. A permit for the sale of milk, of any grade or designation, or of cream, may be granted only after the premises where it is proposed to care for and handle such milk shall have been rendered clean and sanitary.

3. Every permit for the sale of milk, or cream, from places other than wagons shall expire one year from the date of issue.

4. No wagon shall be used for the transportation of milk, condensed milk, or cream, without a permit from the Board of Health. Every such permit shall expire on the last day of December of the year in which it is granted. A wagon permit for the sale or transportation of milk, condensed milk, or cream shall be conspicuously displayed on the outside of the wagon so that it may be readily seen from the street.

5. Every permit for the sale of milk, of any grade or designation, in a store, shall be so conspicuously placed that it may be readily seen at all times.

6. All stores selling or keeping for sale milk, condensed milk, or cream will be frequently inspected and scored by a system adopted by the Department of Health, and the revocation of the permit of any store may ensue if the score is found repeatedly below the required standard.

7. The revocation of a permit may ensue for violation of any of the rules and regulations of the Department of Health.

8. The revocation of a permit may ensue upon repeated conviction of the holder thereof of the violation of any section of the Sanitary Code relating to the adulteration of milk of any grade or designation.

Sanitary Requirements.

1. Milk, condensed milk, or cream shall not be kept for sale nor stored in any stable or room used for sleeping or domestic purposes, or in any room if in communication with such stable or room, or with watercloset apartments, except when such watercloset apartments are enclosed by a vestibule and are properly ventilated to the external air.

2. Milk, condensed milk, or cream shall not be sold or stored in any room which is dark, poorly ventilated, or dirty, or in which rubbish or useless material is allowed to accumulate, or in which there are offensive odors.

3. The vessels which contain milk, condensed milk, or cream, while on sale, must be so protected by suitable covers and so placed in the store that the milk, condensed milk, or cream will not become contaminated by dust, dirt, or flies.

4. Cans containing milk, condensed milk, or cream shall not be allowed to stand on the sidewalk or outside of the store door.

5. Milk, condensed milk, or cream must not be transferred from cans to bottles or other vessels on the streets, at ferries, or at railroad depots.

6. Cans in which milk, condensed milk, or cream is kept for sale, shall be kept either in a milk tub, properly iced, or in a clean ice-box or refrigerator in which these or similar articles of food are stored.

7. All containers in which milk, condensed milk, or cream is handled, transported, or sold must be thoroughly cleaned before filling, but such cleaning shall not be done, nor shall such containers be filled in any stable or in any room used for sleeping or domestic purposes, or in any room having connection with such stable or rooms, or with watercloset apartments, except when such watercloset apartments are enclosed by a vestibule and are properly ventilated to the external air.

8. All dippers, measures or other utensils used in the handling of milk, condensed milk, or cream must be kept clean while in use, and must be thoroughly cleaned with hot water and soapsuds directly after each day's use.

9. The ice-box or ice-tub in which milk, condensed milk, or cream is kept must be maintained in a thoroughly clean condition, and must be scrubbed at such times as may be directed by the Department of Health.

10. The overflow pipe from the ice-box in which milk, condensed milk, or cream is kept must not be directly connected with the drain pipe or sewer, but must discharge into a properly trapped, sewer-connected, water-supplied open sink.

11. No person having a contagious disease, or caring for or coming in contact with any person having a contagious disease, shall handle milk.

Labeling.

Each container or receptacle used for bringing milk or cream into the City of New York, from which the said milk or cream is sold directly to the consumer, shall bear a tag stating, if shipped from a creamery, the location of the said creamery and the date of shipment; if shipped directly from a dairy, the location of the said dairy and the date of shipment.

As soon as the contents of such container or receptacle are sold, or before the said container is returned or otherwise disposed of, or leaves the possession of the dealer, the tag thereon shall be removed and kept on file in the store where such milk or cream has been sold for a period of two months thereafter for inspection by the Department of Health.

Every wholesale dealer in the City of New York shall keep a record in his main office in the said city, which shall show the place or places from which milk or cream, delivered by him daily to retail stores in the City of New York, has been received; and the said record shall be kept for a period of two months, for inspection by the Department of Health, and shall be readily accessible to the inspectors of the said department.

Pasteurization.

1. Milk, which has been subjected to the action of heat commonly known as "Pasteurization," shall not be held, kept, offered for sale, or sold and delivered in the City of New York, unless the receptacle in which the same is contained is plainly labeled "Pasteurized."

2. Only such milk or cream shall be regarded as Pasteurized as has been subjected to a process in which the temperature and exposure conform to one of the following:

No less than 158 degrees F. for at least 3 minutes.
No less than 155 degrees F. for at least 5 minutes.
No less than 152 degrees F. for at least 10 minutes.
No less than 148 degrees F. for at least 15 minutes.
No less than 145 degrees F. for at least 18 minutes.
No less than 140 degrees F. for at least 20 minutes.

3. The milk after Pasteurization must be at once cooled and placed in clean containers, and the containers immediately closed.

4. The said term "Pasteurized" shall only be used in connection with the milk classified as "Grade A: Selected Milk (Pasteurized)" and "Grade B: Pasteurized," or cream obtained from such milk.

5. Milk or cream which has been heated in any degree will not be permitted to be sold in New York City unless the heating conforms with the requirements of the Department of Health for the Pasteurization of milk or cream.

6. Applications for permits to Pasteurize milk or cream will not be received until all forms of apparatus connected with the said Pasteurization have been tested and the processes approved by the Board of Health.

DEPARTMENT OF FINANCE.

(Continued from Page 3419.)

Supreme, Kings Co., Clinton ave., Brooklyn; certified copy of order entered May 4, 1907, directing payment of award to Eugene J. O'Keefe and another, executors, p. 99. Wm. R. Doherty, attorney.

Supreme, New York Co., W. 184th st., etc.; certified copy of order entered March 27, 1912, directing payment of award to Catherine Shea, executrix, pp. 3, 4, 5, 6, 7, 8, 9, 10. Jos. A. Flannery, attorney.

General Sessions, New York Co., People of State of New York vs. Harold Binney, $10; certified copy of order reversing judgment and directing refund. Osborne & Lamb, attorneys.

Supreme, Kings Co., People ex rel. Thos. J. Dennehy vs. Wm. A. Prendergast, Comptroller, etc.; copy of peremptory writ of mandamus. Wm. W. Wingate, attorney.

Supreme, New York Co., Delia McDonough vs. City of New York and another; copy of summons and complaint. Michael J. Walsh, attorney.

Supreme, Kings Co., Suydam st., etc.; Avenue P, Van Sicklen ave., Riverdale ave.; notice of motion to confirm report. A. R. Watson, attorney.

Supreme, New York Co., Margaret Daub, $50; Frederick Daub, $100; transcript of judgment. Edward A. Maher, Jr., attorney.

Municipal, Manhattan, 2d District, Rifka Finkelstein, $25; transcript of judgment. Henry Lieb, attorney.

Surrogate, New York Co., Estate of Sarah Burns or Byrnes, deceased; citation. Francis A. O'Neill, attorney.

Claims Filed.

March 25, 1912—Schmittberger's Detective Bureau, $698.68; voucher for hire of field men, transportation of strike breakers and compensation for laborers by reason of the recent strike in the Department of Street Cleaning.

March 25, 1912—Dr. Theodore Cole, $242; expenses incurred through water entering cellars at Nos. 786-788 East 163d st., The Bronx, from a sunken hydrant for past two and one-half years.

March 25, 1912—William L. Crow, $316.50; amount deposited as security for the restoration of street pavement in connection with certain enumerated permits from the Bureau of Highways. James M. Vincent, attorney.

March 25, 1912—A. de Wilde, $750; amount due for ice breaking, shifting scows and other services rendered as per emergency contract with Department of Street Cleaning. Corbin & O'Ryan, attorneys.

March 25, 1912—James P. Sullivan, $69.66; prevailing rate of wages, Engineman, Department of Water Supply, Gas and Electricity, August 19, 1909, to February 2, 1910. John E. O'Brien, attorney.

March 25, 1912—Bettie Geffner; personal injuries sustained February 9, 1912, by falling, due to defective condition of the sidewalk in front of No. 3959 3d ave., The Bronx. Henry Lieb, attorney.

March 25, 1912—Christine Macnamara, $2,000; personal injuries sustained February 25, 1912, by falling into a hole in sidewalk on north side of Church ave., between Stratford road and East 10th st., Brooklyn. Joline, Larkin & Rathbone, attorneys.

March 25, 1912—Catherine Black, $5,000; personal injuries sustained March 4, 1912, by falling due to defective condition of sidewalk at northeast corner Willis ave. and East 135th st., The Bronx. Robert Stewart, attorney.

March 25, 1912—Minnie Stern, $414.75; damages to property, Nos. 308-314 East 33d st., Manhattan, by an explosion in manholes, January 25, 1912.

March 25, 1912—Mitsui & Co., Limited, $1,782.65; damages to silk stored in warehouse of F. C. Linde by water from leaking man in Laight st., between Varick and Hudson st., Manhattan. Otto A. Hack, attorney.

March 25, 1912—Empire State Dairy Company, $8; damages to wagon March 18, 1912, at Broadway and Union ave., Brooklyn, by Department of Street Cleaning Cart No. 60.

March 25, 1912—M. Sherotzky, $4; repairs to wagon authorized by the Comptroller.

March 25, 1912—A. Mantel, $20.50; plumber's bill, opening up street in front of 229 Hamburg ave., Brooklyn, to locate a leak in water main.

March 25, 1912—Reilly Engineering Company, $106.32; voucher for repairs to an automobile, Department of Water Supply, Gas and Electricity, Queens.

March 25, 1912—Julius Simpson; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—James F. McManus, arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—David F. Miller, arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—George La Pasta; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—W. M. Culbert, arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Louis Grabow, arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Joseph Wolfson; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Otto E. Weinberger; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—H. Jahn; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Wm. H. Perley; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Jno. R. O'Brien; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John J. Malloy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Stacy B. Waters; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—James F. O'Rourke; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—O. H. Kennelly; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—David Jackson; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Henry Samuel; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—H. W. Meyer; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Michael F. Coyne, arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Valentine J. Durham; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Patrick A. McCauley; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—J. M. Clarke; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Abraham H. Karp; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—A. H. Juknavorian; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—J. Fred Coots; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Fred G. Bosler; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Samuel Sperling; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Geo. V. Rockwell; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Patrick D. Murray; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Alexander McDougal; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—C. F. Leahy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—L. H. Reilly; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Henry Ryan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—James I. Willis; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Jno. J. Shanahan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Eugene S. Mintram; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John J. Parks; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Bernard J. McGrane; arrears in salary due; Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Daniel J. Cullinan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—J. P. Canavan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Alonzo Hernandez; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—William C. Lenz; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Sumner H. Peck; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Alexander Gazzola; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Chas. B. Williams; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—W. D. Tyler; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Gustave G. Runge; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John C. Daly; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Chas. H. Roche; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Thos. J. Murphy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Louis Gerson; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Jere A. Hallanan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Frederick Lowe; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Warren H. Huber; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Joseph Lefkowitz; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Adrien E. Green; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John P. Lange; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Jno. W. Williams; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Joseph J. Riordan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—William Ruppert; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Richard F. Walsh; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John J. Monahan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Thos. F. Brady; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Sterling Wells; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—John C. Clancy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Moses I. Siegel; arrears in salary due, Inspector of Tenements since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Cornelius J. Sheehan; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Thomas F. Brice; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—James O. Shaughnessy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Chas. L. Goldstein; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Richard J. Fell; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Martin J. Melledy; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 25, 1912—Clarence L. Carman, $687.13; arrears in salary due, Draftsman, Department Bridges, September 6, 1904, to July 1, 1907. Gettner, Simon & Asher, attorneys.

March 25, 1912—Thomas W. Golding, $937.50; arrears in salary due, Draftsman, Department Bridges, April 14, 1905, to May 14, 1907. Gettner, Simon & Asher, attorneys.

March 26, 1912—James J. Holsgrove, $63.60; damages to wagon, January 29, 1912, in front of 217 Smith st., Brooklyn, by the tender of Engine No. 104, Fire Department.

March 26, 1912—Meyer Traub, $38; damages to push cart and contents, March 14, 1912, at Goerck and Stanton sts., Manhattan, by Department Street Cleaning cart R 1394. Samuel Klein, attorney.

March 26, 1912—Mrs. Annie Ball; personal injuries sustained March 6, 1912, by falling due to the dangerous condition of the sidewalk at about 42 Westervelt ave., Richmond.

March 26, 1912—Anna Goldman, $500; personal injuries sustained January 14, 1912, by being run down by a City automobile on DeKalb ave., between Lewis and Sumner aves., Brooklyn. A. Loeb Salkin, attorney,

March 26, 1912—Albert C. Phelps, $2,500; personal injuries sustained January 7, 1912, by his automobile going down an embankment on Pelham Parkway road. Benj. A. Hartstein, attorney.

March 26, 1912—Edward M. Walsh, $100; loss of tree in front of 114 1st pl., Brooklyn, through the carelessness of the Barber Asphalt Company removing another decayed tree.

March 26, 1912—Simon Friedman, $10; damages to railing in front of 61 Hopkins st., Brooklyn, by Department Street Cleaning cart.

March 27, 1912—Fairchild Electric Vehicle Company, $190; damages to automobile March 16, 1912, by running into a depression in the street at Grand and Gates aves., Brooklyn. Geo. A. Logan, attorney.

March 27, 1912—Jacob Grossman, $5,000; personal injuries sustained January 13, 1912, by falling on the icy sidewalk at the corner of Grand and Eldridge sts., Manhattan. Emanuel I. Silberstein, attorney.

March 27, 1912—James T. Lane, $9,561.20; prevailing rate of wages, Carpenter, Department of Correction, January 1, 1894, to December 31, 1911. James M. Donahue, attorney.

March 27, 1912—James Lyons, $60; salary due, Inspector of Bronx Borough Court House, October 9, 1911, to October 21, 1911, 12 days at $5. Geo. M. Barry, attorney.

March 27, 1912—Bridget Carr, $69.56; salary illegally withheld, Attendant, Brooklyn, during November and December, 1908, 34 days. Howard E. Greene, attorney.

March 27, 1912—Anna May and Walter Leonard Mason, $964.67; refund of amount wrongfully paid for vault privilege under Bridge st., near Myrtle ave., Brooklyn. Wm. P. Hamilton, Jr., attorney.

March 27, 1912—Knickerbocker Ice Company, $543.73; returning 3 warrants amounting to $467.46 and demanding full amount due. Frank R. Savidge, attorney.

March 27, 1912—Ferdinand E. M. Bullowa, $66.38; refund of unexpended balance of $82.38 deposited with Sheriff, Julius Harburger, New York County, for fees and expenses in the case of Assets Collecting Company vs. Goldsmith.

March 28, 1912—W. J. Conway; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 28, 1912—Wilhelmina Barrett; arrears in salary due, Inspector of Tenements, since March 9, 1903. John T. Loew, attorney.

March 28, 1912—Carsten D. Borger, $370.97; damages to property at 85 William st., Manhattan, by water from a leaky main, September 29, 1911. Bacchus & Demarest, attorneys.

March 28, 1912—Solomon Schneider, administrator, $50,000; death of Abraham Schneider by being run down by a City automobile October 3, 1911, in front of 218 E. 75th st., Manhattan. Steiner & Petersen, attorneys.

March 28, 1912—Isaac Rosenberg, $2,000; personal injuries sustained November 19, 1911, while in the employ of the Department Street Cleaning by being struck by one of its carts at Clinton st. dock. Henry D. Levy, attorney.

March 28, 1912—Henry Eptel, $2,000; personal injuries sustained October 29, 1911, by falling, due to a hole in the walk in Seward Park, near the exit to E. Broadway, Manhattan. Henry D. Levy, attorney.

March 28, 1912—Abraham Lebovsky, infant, by his guardian, Samuel Lebovsky, $5,000; personal injuries sustained February 2, 1912, by falling over a pile of rubbish in the yard of Public School 40, Brooklyn. Grover M. Moscowitz, attorney.

March 28, 1912—Samuel Green; damages occasioned by the obstruction created by the City in front of premises 43-45 Centre st., Manhattan.

March 28, 1912—Robert Quinn, $275; damages to canal boat "James H. Quinn," March 14, 1912, in Buttermilk Channel by ferryboat "Nassau."

March 28, 1912—James Kear, $14; expenses incurred locating leak in hydrant at 623 10th ave., Manhattan.

March 28, 1912—Frank Pluemacher; damages to overcoat March 14, 1912, by catching on nails protruding from fence at Dover and Water sts., Manhattan.

March 28, 1912—Petry & Hogan; damages to wagon, March 23, 1912, by Department Street Cleaning cart in front of 841 DeKalb ave., Brooklyn.

March 28, 1912—Lloyd's Plate Glass Insurance Company, $79.49; plate glass broken by Department Street Cleaning carts, December 19, 1911, at 103 5th ave., Manhattan, $18.99, and December 23, 1911, at 2929-2933 3d ave., Manhattan, $60.50.

March 29, 1912—William H. Daly, $50; burial of Geo. W. Willis, a veteran.

March 29, 1912—Brooklyn Union Elevated Railroad Company, $55,086.33; City's share of expense in rearranging and reconstructing tracks, etc., on the Brooklyn Bridge, as per agreement of August 1, 1907. Geo. D. Yeomans, attorney.

March 29, 1912—Arthur T. Reilly, $282.58; amounts deducted from his salary as Auditor, Department Bridges, April to November, 1911. Max Schleimer, attorney.

March 29, 1912—Della Meehan, $500; personal injuries sustained February 10, 1912, by falling over a loose board in sidewalk at corner 162d st. and Washington ave., The Bronx. Louis Susman, attorney.

March 29, 1912—Rose Wolchok, $5,000; personal injuries sustained December 25, 1911, by falling due to the dangerous condition of the sidewalk opposite Nos. 596 to 600 E. 141st st. Moses A. Sachs, attorney.

March 29, 1912—Ellen Ward, $10,000; personal injuries sustained January 12, 1912, by falling on the icy sidewalk in front of No. 225A 18th st., Brooklyn. Martin T. Manton, attorney.

March 29, 1912—Louis Becker, $5,000; personal injuries sustained March 23, 1912, while driving a wagon through Rutgers st., near Cherry st., Manhattan, by being hit by a Department Street Cleaning cart. A. Greenberg, attorney.

March 29, 1912—The City and County Contract Company, $2,584.79; award and interest for damage Parcel No. 15, in the matter of opening and widening West Farms road, from the Bronx River to Westchester Creek. Graham & L'Amoreaux, attorneys.

March 29, 1912—Anna, Bertha and Rudolph H. Altherr and Anna K. Wolffert; award for damage Parcel No. 7, in the matter of opening Luyster st., from Jackson ave. to the bulkhead line of the East River, Queens. Peter Klein, attorney.

March 30, 1912—Arthur J. Rieser & Co., Inc., assignee of Jno. F. Walsh, Jr., Co., $198; balance due for labor and material remodeling court room, etc., on order No. 2996 of September 15, 1910, $140, and extra work done in connection with same, $58. Eugene I. Gottlieb, attorney.

March 30, 1912—Blythebourne Water Company; restraining the City from laying pipes for conveying water and compelling the City to remove any such pipes within certain territory, Borough Park, Brooklyn. James F. Quigley, attorney.

March 30, 1912—Seth Thomas Clock Company, $48; amount due for 3 clocks delivered Department Street Cleaning, Stable A, in 1909-1910.

March 30, 1912—The White Company, $73; amount due for hire of automobile by Police Department May 13, 14, 15, 23, 1911.

March 30, 1912—Josiah B. Tisdale, $37.72; amount due for lumber delivered to Department Sewers, Queens, in October, 1907, $29.25, and to Department Education, Queens, in May, 1907, $8.47. Easton S. Bacon, attorney.

Approval of Sureties.

The Comptroller approved of the adequacy and sufficiency of the sureties on the following proposals, viz:

March 25, 1912, Bellevue and Allied Hospitals—For plaster. Deane Plaster Company, Yonkers, N. Y., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 25, 1912, Bellevue and Allied Hospitals—For cotton. F. S. Banks and Company, 149 Chambers st., New York, principal; the Empire State Surety Company, 84 William st., New York, surety.

March 25, 1912, Bellevue and Allied Hospitals—For gauze and lint. Johnson & Johnson, 100 William st., New York, principal; American Fidelity Company, 68 William st., surety.

March 25, 1912, Bellevue and Allied Hospitals—For cotton waste. Lewis Manufacturing Company, 70 5th ave., New York, principal; American Surety Company of New York, 100 Broadway, surety.

March 25, President, Borough of Brooklyn—For coal. Thomas W. Wood's

Sons, 423 State st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 25, 1912, Department of Water Supply, Gas and Electricity—For coal. The Davis Coal and Coke Company, 1 Broadway, principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, Department of Public Charities—For trees and shrubbery. American Nursery Company, 149 Broadway, principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 25, 1912, Fire Department—For new building at 533 Hicks st. Mitchell Construction Company, 5 Court square, Brooklyn, N. Y., principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 25, 1912, Bellevue and Allied Hospitals—For coal. Chas. D. Norton Company, 17 Battery place, New York, principal; Fidelity and Deposit Company of Maryland, 2 Rector st., surety.

March 25, 1912, President, Borough of Brooklyn—For forage. Gasteinger & Schaefer, 25 Johnson ave., Brooklyn, principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 25, 1912, Department of Health—For hardware supplies. A. F. Brombacher and Company, 31 Fulton st., New York, principal; the Empire State Surety Company, 84 William st., New York, surety.

March 25, 1912, Department of Parks—For erecting, etc., boiler house. Wills & Marvin Co., 1123 Broadway, New York, principal; American Bonding Company of Baltimore, 84 William st., New York City; the Title Guaranty and Surety Company, 84 William st.; Massachusetts Bonding and Insurance Company, 27-29 Pine st., sureties.

March 25, 1912, Bellevue and Allied Hospitals—For alcohol. The American Distributing Company, James A. Webb & Son, Branch, principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, President, Borough of Manhattan—For repaving 38th st. Atlanta Contracting Company, 434 E. 91st st., principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 26, 1912, President, Borough of Manhattan—For repaving 43d st. Atlanta Contracting Company, 434 E. 91st st., principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 26, 1912, President, Borough of Queens—For receiving basin, Graham ave. Gabriel Hill, 94 Washington ave., Long Island, principal; National Surety Company, 115 Broadway, New York City, surety.

March 26, 1912, President, Borough of Queens—For receiving basins, 15th ave., etc. Gabriel Hill, 94 Washington ave., Long Island, principal; National Surety Company, 115 Broadway, New York City, surety.

March 26, 1912, President, Borough of Queens—For regulating, etc., Cleveland ave. Astoria Contracting Company, 699 Crescent st., Long Island City, principal; Massachusetts Bonding and Insurance Company, 27-29 Pine st., surety.

March 26, 1912, President, Borough of Manhattan—For repaving Allen st. Atlanta Contracting Company, 434 E. 91st st., New York, principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 26, 1912, President, Borough of Manhattan—For repaving Lewis st. Atlanta Contracting Company, 434 E. 91st st., New York, principal; American Bonding Company of Baltimore, 84 William st., New York City; National Surety Company, 115 Broadway, New York City, sureties.

March 26, 1912, President, Borough of Manhattan—For repaving 1st ave. Atlanta Contracting Company, 434 E. 91st st., New York, principal; American Surety Company of New York, 100 Broadway; National Surety Company, 115 Broadway, New York City, sureties.

March 26, 1912, Fire Department—For erection of building for an engine company. Wm. Flanagan, 423 75th st., Brooklyn, principal; Maryland Casualty Company, 100 William st., New York, surety.

March 26, 1912, President, Borough of The Bronx—For repairing sheet asphalt pavement. The Asphalt Construction Company, 208 Broadway, New York, principal; the Empire State Surety Company, 84 William st., New York; National Surety Company, 115 Broadway, New York City, sureties.

March 26, 1912, President, Borough of The Bronx—For repairing asphalt block pavements. The Hastings Paving Company, 25 Broad st., New York, principal; the Fidelity and Casualty Company of New York, 97-103 Cedar st.; the Title Guaranty and Surety Company, 84 William st., sureties.

March 26, 1912, Police Department—For supplies. J. F. Reichhard, 59 and 61 Pearl st., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, Police Department—For supplies. James H. Rhodes & Co., 85 and 87 Front st., New York, principal; American Surety Company of New York, 100 Broadway, surety.

March 26, 1912, Department of Parks—For grass seeds. Vaughan's Seed Company, 25 Barclay st., New York, principal; American Surety Company of New York, 100 Broadway, surety.

March 26, 1912, Police Department—For supplies. H. T. Dakin, 97 Warren st., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, Police Department—For supplies. Max Fuchs, 224 Pearl st., New York, principal; American Surety Company of New York, 100 Broadway, surety.

March 26, 1912, Police Department—For supplies. Universe Trading Company, 171 Broadway, principal; Illinois Surety Company, 8 Nassau st., surety.

March 26, 1912, Police Department—For supplies. M. K. Bowman-Edson Company, 64 Dey st., Manhattan, principal; the Empire State Surety Company, 84 William st., New York, surety.

March 26, 1912, Police Department—For supplies. James S. Barron & Co., 127-129 Franklin st., New York, principal; United States Guarantee Company, 111 Broadway, surety.

March 26, 1912, Department of Water Supply, Gas and Electricity—For supplies. Bruce & Cook, 190 Water st., Manhattan, principal; American Bonding Company of Baltimore, 84 William st., New York City, surety.

March 26, 1912, Department of Education—For fire protection, Public Schools 4, 9 and 12, Brooklyn. B. Diamond, 12 Bergen st., Brooklyn, principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, Department of Parks—For gasolene. The Manhattan Supply Company, 115 Franklin st., Manhattan, principal; United States Guarantee Company, 111 Broadway, surety.

March 26, 1912, Department of Parks—For grass sod. William Young, 448 West 36th st., principal; American Surety Company of New York, 100 Broadway, surety.

March 26, 1912, Police Department—For supplies. J. Falco Donovan, 48 West 73d st., principal; the Title Guaranty and Surety Company, 84 William st., surety.

March 26, 1912, President of the Borough of Manhattan—For paving 4th st. United States Wood Preserving Company, principal; the Title Guaranty and Surety Company, 84 William st.; Massachusetts Bonding and Insurance Company, 27-29 Pine st., sureties.

March 26, 1912, President of the Borough of Manhattan—For paving 22d st. United States Wood Preserving Company, principal; the Title Guaranty and Surety Company, 84 William st.; Massachusetts Bonding and Insurance Company, 27-29 Pine st., sureties.

March 26, 1912, Department of Education—For fire protection, Public School 8, Brooklyn. A. W. King, 251 East 66th st., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 26, 1912, Department of Education—For fire protection, Public Schools 2 and 15, Brooklyn. John J. Kenny, 435 73d st., Brooklyn, principal; the United States Fidelity and Guaranty Co., 66 Liberty st., New York, surety.

March 26, 1912, President of the Borough of Manhattan—For repaving Mercer st. Wm. J. Fitzgerald, 547 West 45th st., principal; National Surety Company, 115 Broadway, surety.

March 26, 1912, President of the Borough of Manhattan—For repaving Beach st. Wm. J. Fitzgerald, 547 West 45th st., principal; National Surety Company, 115 Broadway, surety.

March 26, 1912, President of the Borough of Manhattan—For repaving Canal st. Wm. J. Fitzgerald, 547 West 45th st., principal; National Surety Company, 115 Broadway, surety.

March 26, 1912, President of the Borough of Manhattan—For repaving Greenwich ave. Wm. J. Fitzgerald, 547 West 45th st., principal; National Surety Company, 115 Broadway, surety.

March 27, 1912, Police Department—for supplies. J. N. Van Ness Company, 120 Chambers st., principal; National Surety Company, 115 Broadway, New York City, surety.

March 27, 1912, Police Department—For harness, supplies, etc. Mehlbach Saddle Company, 106 Chambers st., principal. The United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 27, 1912, Brooklyn Disciplinary Training School—For supplies. Armour & Co., 30 Church st., New York, principal; United States Guarantee Company 111 Broadway, surety.

March 28, 1912, Department of Public Charities—For garden mould. Evergreen Construction Company, 244 Jackson ave., Long Island City, principal; the Empire State Surety Company, 84 William st., New York, surety.

March 28, 1912, Department of Parks—For cement. J. P. Duffy & Co., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 28, 1912, Police Department—For supplies. Manhattan Supply Company, 115 Franklin st., principal; United States Guarantee Company, 111 Broadway, surety.

March 28, 1912, Police Department—For supplies. Smith, Worthington Company, 40 Warren st., principal; G. C. Commel; Wm. F. Myers, sureties.

March 28, 1912, Police Department—For supplies. Smith, Worthington Company, 40 Warren st., principal; G. C. Hommel, Wm. I. Myers, sureties.

March 28, 1912, Department of Health—For groceries. Sulzberger & Sons Co., 45th st. and 1st ave., principal; National Surety Company, 115 Broadway, New York City, surety.

March 28, 1912, Department of Health—For grocery supplies. The Manhattan Supply Company, 115 Franklin st., principal; United States Guarantee Company, 111 Broadway, surety.

March 28, 1912, Department of Health—For grocery supplies. John Bellman, 61 Hudson st., principal; United States Guarantee Company, 111 Broadway, surety.

March 28, 1912, Department of Health—For forage. Charles Schaefer, Jr., 304 Meserole st., principal; National Surety Company, 115 Broadway, New York City, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. Greenhut, Siegel-Cooper Company, 18th st. and 6th ave., principal; United States Guarantee Company, 111 Broadway, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. Godfrey, Keeler Company, 70 Warren st., principal; Aetna Accident and Liability Company, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. John Fox and Company, 253 Broadway, principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 29, 1912, President, Borough of Brooklyn—For lumber. Brooklyn Lumber Company, Hamilton ave. and 15th st., Brooklyn, principal; National Surety Company, 115 Broadway, New York City, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. John Lucas, principal; United States Guarantee Company, 111 Broadway, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. Independent Refiners Sales Company, 171 Front st., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. John Greig, 45 Broadway, principal; the Title Guaranty and Surety Company, 84 William st., surety.

March 29, 1912, Fire Department—For Spruce st. building. Kerr, Krenkel and Company, 205 W. 30th st., principal; Massachusetts Bonding and Insurance Company, 27-29 Pine st., surety.

March 29, 1912, Fire Department—For 12th ave. building. The Tower Construction Company, 1 Madison ave., principal; National Surety Company, 115 Broadway, New York City, surety.

March 29, 1912, Department of Street Cleaning—For forage. Gasteiger & Schaefer, 25 Johnson ave., principal; New England Casualty Company, surety.

March 29, 1912, Department of Charities—For coal. Chas. D. Norton Company, 17 Battery place, principal; Fidelity and Deposit Company of Maryland, 2 Rector st., surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. New Jersey Car Spring and Rubber Company, Jersey City, N. J., principal; National Surety Company, 115 Broadway, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. A. P. Smith Manufacturing Company, East Orange, N. J., principal; Illinois Surety Company, 5 Nassau st., surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. Smith-Worthington Company, 40 Warren st., principal; G. C. Hommel, Wm. F. Menger, sureties.

March 29, 1912, Department of Education—For stationery, etc. The J. W. Pratt Company, 52 Duane st., principal; National Surety Company, 115 Broadway, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. Standard Oil Company of New York, 56 New st., principal; American Surety Company of New York, 100 Broadway, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For Supplies. New York Lubricating Oil Company, 116 Broad st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For supplies. Revere Rubber Company of New York, 59 Reade st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 29, 1912, Department of Water Supply, Gas and Electricity—For supplies. Sibley & Pitman, 26 Warren st., principal; the United States Fidelity and Guaranty Company, 66 Liberty st., New York, surety.

March 29, 1912, Fire Department—For Metropolitan ave. building. Geo. F. Driscoll Company, 548 Union st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 29, 1912, Fire Department—For building at No. 160 Carlton ave. Geo. F. Driscoll Company, 548 Union st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 29, 1912, Fire Department—For building at No. 489-491 St. Johns place. Geo. F. Driscoll Company, 548 Union st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 29, 1912, Fire Department—For building at 124 DeKalb ave. Geo. F. Driscoll Company, 548 Union st., principal; the Empire State Surety Company, 84 William st., New York, surety.

March 30, 1912, Department of Water Supply, Gas and Electricity—For alterations at Bayside Pumping Station. Henry Britton, 238 S. Elm st., Richmond Hill, principal; the Title Guaranty and Surety Company, 84 William st., surety.

Opening of Proposals.

The Comptroller, by representative, attended the opening of proposals at the following Departments, viz.:

March 25, 1912—For improvements to various public schools, Department of Education.

March 25, 1912—For supplies, Fire Department.

March 25, 1912—For moving Departmental property, etc., Health Department.

March 25, 1912—For forage, Police Department.

March 25, 1912—For improvements to various streets, Borough of Manhattan, President of the Borough.

March 26, 1912—For railings, gratings, etc., Board of Water Supply.

March 26, 1912—For the final disposition of ashes, etc., Department of Street Cleaning.

March 26, 1912—For broken stone, etc., Borough of Richmond, President of the Borough.

March 26, 1912—For furnishing horse prison vans, etc., Department of Correction.

March 27, 1912—For improvements to various streets, Borough of Queens, President of the Borough.

March 27, 1912—For forage, Department of Street Cleaning.

March 27, 1912—For improvements to various streets, Borough of Brooklyn, President of the Borough.

March 28, 1912—For photographic supplies, Police Department.

March 28, 1912—For paving, etc., work in Central Park, Park Department.

March 28, 1912—For supplies, Department of Public Charities.

March 29, 1912—For supplies, Health Department.

March 29, 1912—For paints, oils, etc., Department of Street Cleaning.

March 29, 1912—For electric wiring in the Washington Market Building, Borough of Manhattan, President of the Borough.

March 29, 1912—For wire screens, etc., Department of Public Charities.

EDMUND D. FISHER, Deputy and Acting Comptroller.

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 J. 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 Mitchel; Brigadier-General George Moore Smith, Brigadier-General John G. Eddy, Commodore R. P. Forshew, the 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 9 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.

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'Keeffe, Arden M. Robbins, James A. Farley, Samuel Sachs, Leopold Stern; Michael J. Drummond, ex-officio.
General Medical Superintendent, Dr. George D'Hanlon.

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 Mitchel, President.
P. J. Scully, City Clerk.

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. Drennan, Secretary.
Telephone, 29, 30 and 31 Worth.

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. Spregelberg; D. C. Potter, Director.
Ambulance Calls—Telephone, 3100 Spring.
Administration Offices—Telephone, 7586 Spring

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.

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.
George A. Just, Chairman. Members: William Crawford, Lewis Harding, Charles G. Smith, John P. Leo, Robert Maynicke, 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 Dorning, 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 . Heintz, Rosario Maggio, 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 F. 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.

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.
Telephones, 2493 Franklin and 1200 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. Sculley, Clerk, Borough of Brooklyn.
Matthew McCabe, Deputy City Clerk, Borough of The Bronx.
George D. Frenz, Deputy City Clerk, Borough of Queens.
Joseph F. O'Grady, Deputy City Clerk, Borough of Richmond.

CHANGE OF GRADE DAMAGE COMMISSION.

Office of the Commission, Room 223, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City.
William D. Dickey, 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, 3254 Worth.

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 McMillen, 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.
Telephones, 1505 and 1506 Cortlandt.

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; William A. Prendergast, Comptroller; Robert R. Moore Chamberlain; John Purroy Mitchel, 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 Buildin g No. 280 Broadway, Borough of Manhattan.
Telephone, 1200 Worth.

DEPARTMENT OF BRIDGES.

Nos. 13-21 Park Row.
Arthur J. O'Keeffe, 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, 5580 Plaza.

Stated meetings of the Board are held at 4 p. m. on the first Monday in February, the second Wednesday in July, and the second and fourth Wednesdays in every month, except July and August.
Egerton L. Winthrop, Jr., President.
John Greene, Vice-President.
A. Emerson Palmer, Secretary.
Fred H. Johnson, Assistant Secretary.
C. B. J Snyder, Superintendent of Schoo Buildings.
Patrick Jones, Superintendent of School Supplies
Henry R. M. Cook, Auditor.
Thomas A. Dillon, Chief Clerk.
Henry M Leipziger, Supervisor of Lectures.
Claude G. Leland, Superintendent of Libraries.
A. J. Maguire, Supervisor of Janitors.

BOARD OF SUPERINTENDENTS.

William H. Maxwell, City Superintendent of Schools, and Andrew W. Edson, John H. Haaren, Clarence E. Meleney, Thomas S. O'Brien, Edward B. Shallow, Edward L. Stevens, Gustave Straubenmüller, John H. Walsh, Associate City Superintendents.

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. Rathyen, Auditor of Receipts.
James J. Munro, Chief Inspector.
R. B. McIntyre, Examiner in Charge, Expert Accountants' Division.

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.
Ernst J. Lederle, Ph. D., Commissioner of Health and President; Joseph J. O'Connell, M. D.; Rhinelander Waldo, Commissioners.
Eugene W. Scheffer, Secretary.

DEPARTMENT OF PARKS.

Charles B. Stover, Commissioner of Parks for the Boroughs of Manhattan and Richmond, and President Park Board.
Clinton H. Smith, Secretary.
Offices, Arsenal, Central Park.
Telephone, 201 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, 9 a. m. to 4 p. m.
Telephone, 2300 South.
Thomas J. Higgins, Commissioner of Parks for 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. Eliot, Commissioner of Parks for the Borough of Queens.
Temporary office, Arsenal, Central Park, Manhattan.

PERMANENT CENSUS BOARD.

Hall of Board of Education, No. 500 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, 2977 Main.
J. McKee Borden, Secretary.
Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 a. m. to 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 59th 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.
Telephones: Manhattan, 5962 Cortlandt; Brooklyn, 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.
Office open during business hours every day in the year (except legal holidays). Examinations are held on Monday, Wednesday and Friday at 1 p. m.

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.

OFFICES.

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.
Philip P. Farley, Deputy Commissioner, Boroughs of Brooklyn and Queens.
Daniel E. Finn, Secretary of Department.

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.

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, 1694 Rector.

MUNICIPAL CIVIL SERVICE COMMISSION.

No. 299 Broadway, 9 a. m. to 5 p. m.; Saturdays, 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 Commissioner.

POLICE DEPARTMENT.

CENTRAL OFFICE.

No. 240 Centre street, 9 a. m. to 5 p. m. (months of June, July and Aug ust, 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 SERVICE COMMISSION.

The Public Service Commission for the First District, Tribune Building, No. 154 Nassau street, Manhattan.
Office hours, 8 a. m. to 11 p. m., every day in the year, including holidays and Sundays.
Stated public meetings of the Commission, Tuesdays and Fridays at 12 m., in the Public Hearing Room of the Commission, third floor of the Tribune Building, unless otherwise ordered.
Commissioners—William R. Willcox, Chairman; Milo R. Maltbie, John E. Eustis, J. Sergeant Cram, George V. S. Williams. Counsel, George S. Coleman. Secretary, Travis H. Whitney.
Telephone, 4150 Beekman.

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; 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. Beaty, Secretary to the President.
Edgar Vietor Frothingham, Commissioner of Public Works.
W. R. Patterson, Assistant Commissioner of Public Works.
Rudolph P. Miller, Superintendent of Buildings.
——— ——— Superintendent of Public 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. Largy, 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.
John Thatcher, Superintendent of Buildings.
William J. Taylor, Superintendent of the Bureau of Sewers.
Howard L. Woody, Superintendent of the Bureau of Public Buildings and Offices.
Frederick Linde, 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. Fetherston, Assistant Engineer and Acting Superintendent of Street Cleaning.
Ernest H. Seehusen, Superintendent of Sewers.
John Timlin, Jr., Superintendent of Public Buildings and Offices
Offices, Borough Hall, New Brighton, N. Y., 9 a. m. to 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. Holtzhauser.
Telephones, 5057, 5058 Franklin.
Borough of The Bronx—Corner of Third avenue and Tremont avenue. Telephone, 1250 Tremont and 1402 Tremont.
A. F. Schwannecke, Jacob Shongut.
Borough of Brooklyn — Office, 236 Duffield street, near Fulton street. Telephone, 4004 Main and 4005 Main.
Alexander J. Rooney, Edward Glinnen, 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, 241 Worth.

COMMISSIONER OF RECORDS.

Office, Hall of Records.
William S. Andrews, Commissioner.
James O. Farrell, Deputy Commissioner.
William Moores, 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. 5, 8, 9, 10 and 11 New County Court House.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m to 12 m.
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 Centre 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. Grifenhagen, Register.
William Halpin, 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 from9 a. m. to 2 p. m.
John P. Cohalan and Robert L. Fowler, Surrogates; William V. Leary, Chief Clerk.
Bureau of Records: John F. Curry, Commissioner; Charles W. Culkin, Deputy Commissioner; George F. Scannell, Superintendent.
Telephone, 3900 Worth.

KINGS COUNTY.

COMMISSIONER OF JURORS.

5 County Court House.
Thomas R. Farrell, Commissioner.
Michael J. Trudden, Deputy Commissioner.
Office hours from 9 a. m 4 p. m.; Saturdays from 9 a. m. to 12 m.
Office hours during July and August, 9 a. m to 2 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 1454 Main.

COMMISSIONER OF RECORDS.

Hall of Records.
Office hours, 9 a. m. to 4 p. m., excepting months of July and August, then 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m.
Charles H. Graff, Commissioner.
William F. Thompson, Deputy Commissioner.
Telephone, 6988 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 Feitner, 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, 66 Court street, Borough of Brooklyn. Hours, 9 a. m. to 5.30 p. m.; Saturdays, 9 a. m. to 1 p. m.
James C. Cropsey, 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. Hobley, Deputy Register.
Telephone, 2830 Main.

SHERIFF.

Temple Bar Building, 186 Remsen 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 he 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 2 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3954 Main.

QUEENS COUNTY.

COMMISSIONER OF JURORS.

Office hours, 9 a. m. to 4 p. m.; July and August 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m.
Queens County Court House, Long Island City.
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. o 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. Schleth, Warden.
Telephone, 4161 Hunter's Point.

SURROGATE.

Daniel Noble, Surrogate.
Office, No. 364 Fulton street, Jamaica.
Except on Sundays, holidays and half-holidays, the office is open from 9 a. m. to 4 p. m.; Saturdays from 9 a. m. to 12 m. 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 Bostwick, 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, 235 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, 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 William Lamb, Deputy 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. 6.
Special Term, Part VI., Room No. 31.
Trial Term, Part II., Room No. 34.
Trial Term, Part III., Room No. 32.
Trial Term, Part IV., Room No. 21.
Trial Term, Part V., Room No. 24.
Trial Term, Part VI., Room No. 18.
Trial Term, Part VII., Room No. —.
Trial Term, Part VIII., Room No. 23.
Trial Term, Part IX., Room No. 35.
Trial Term, Part X., Room No. 26.
Trial Term, Part XI., Room No. 27.
Trial Term, Part XII., Room No. —.
Trial Term, Part XIII., and Special Term, Part VII., Room No. 36.
Trial Term, Part XIV., Room No. 28.
Trial Term, Part XV., Room No. 37.
Trial Term, Part XVI., Room No. —.
Trial Term, Part XVII., Room No. 20.
Trial Term, Part XVIII., Room No. 29.
Appellate Term, Room No. 29.
Naturalization Bureau, Room No. 38, third floor.
Assignment Bureau, room on mezzanine floor northeast.
Clerks in attendance from 10 a. m. to 4 p.m.
Clerk's Office, Special Term, Part I. (motion), 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 Bischoff, Leonard A. Giegerich P. Henry Dugro, James Fitzgerald, James A Blanchard, Samuel Greenbaum, Edward E. Mc Call, Edward B. Amend, Vernon M. Davis, Joseph E. Newburger, John W. Goff, Samuel Seabury M. Warley Platzek, Peter A. Hendrick, John Ford, John J. Brady, Mitchell L. Erlanger, Charles L. Guy, James W. Gerard, Irving Lehman, Alfred R. Page, Edward J. Gavegan, Nathan Bijur, John J. Delany, Francis K. Pendleton, Daniel F. Cohalan, Henry D. Hotchkiss.
Telephone, 4580 Cortlandt.

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.

SECOND JUDICIAL DEPARTMENT.

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.

SUPREME COURT—SECOND DEPARTMENT.

KINGS COUNTY

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 1.
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 1 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, 3896 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 I. Green, Alexander Finelite, Thomas F. Donnelly, John V. McAvoy, Peter Schmuck, Richard T. Lynch, Edward B. La Fetra, Richard H. Smith, Justices. Thomas F. Smith, Clerk.
Telephone, 122 Cortlandt.

COURT OF SPECIAL SESSIONS.

Building for Criminal Courts, Centre street, between Franklin and White streets, Borough of Manhattan.
Court opens at 10 a. m.
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, 657 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 Ollendorff, 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.
Philip Bloch, Chief Clerk, 300 Mulberry street.
Telephone, 6213 Spring.
First 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. 125 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.

BOROUGH OF BROOKLYN.

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 Snider avenue (Flatbush).
Eighth District—West Eighth street (Coney Island).
Ninth District—Fifth avenue and Twenty-third street.
Tenth District—No. 133 New Jersey avenue.
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 Marsh.
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.

Wauhope 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. 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.

Benjamin Hoffman, Leon Sanders, Thomas P. Dinnean, Leonard A. Snitkin, 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.

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, 5450 Columbus.

Fourth District.

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, 3860 Plaza.

Fifth District.

Alfred P. W. Seaman, William Young, Frederick Spiegelberg, 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.

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.

Philip J. Sinnott, David L. Weil, 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.

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.

Edgar J. Lauer, Frederic De Witt Wells, Frank D. Sturges, William C. Wilson, Justices.

Frank Bulkley, 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.

Peter A. Shell, Justice.

Stephen Collins, Clerk.

Office hours from 9 a. m. to 4 p. m.; Saturdays closing at 12 m.

Telephone, 457 Westchester.

Second District.

John M. Tierney and William E. Morris, Justices.

Thomas A. Maher, Clerk.

Telephone, 3043 Melrose.

BOROUGH OF BROOKLYN.

First District.

Court House, northwest corner State and Court streets. Parts 1. and 11.

Eugene Conran, Justice. Edward Moran, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Telephone, 7091 Main.

Second District.

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, 504 Bedford.

Third District.

Court House, Nos. 6 and 8 Lee avenue, Brooklyn.

Philip D. Meagher and William J. Bogenshutz, Justices. John W. Carpenter, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Court opens at 9 a. m.

Telephone, 995 Williamsburg.

Fourth District.

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.

Court House, northwest corner of Fifty-third street and Third avenue (No. 5220 Third avenue)

Cornelius Furgueson, Justice. Jeremiah J O'Leary, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m. Sundays and legal holidays excepted.

Telephone, 3907 Sunset.

Sixth District.

Lucien S. Bayliss and Stephen Callaghan Justices. William R. Fagan, Clerk.

Court House, No. 236 Duffield street.

Telephone, 6166-J Main.

Seventh District.

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.

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.

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.

Alfred Denton, Justice. John H. Huhn, Clerk. 1908 and 1910 Myrtle avenue, Glendale.

Telephone, 2352 Bushwick.

Clerk's Office open from 9 a. m. to 4 p. m.

Trial days, Tuesdays and Thurdays (Fridays or Jury trials only), at 9 a. m.

Fourth District.

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.

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.

BOROUGH OF QUEENS.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, 5TH ST. AND JACKSON AVE., LONG ISLAND CITY, BOROUGH OF QUEENS, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at the above office until 11 o'clock a. m. on

MONDAY, APRIL 29, 1912,

FOR THE FINAL DISPOSITION OF GARBAGE IN THE FIFTH WARD OF THE BOROUGH OF QUEENS, OF THE CITY OF NEW YORK, DURING THE MONTHS OF JUNE, JULY, AUGUST AND SEPTEMBER, 1912, AND FURNISHING AND OPERATING THE NECESSARY DUMPS, SCOWS, TUGS, TOOLS, APPLIANCES AND LABOR THEREFOR.

The time allowed for doing and completing the above work will be during the months of June, July, August and September, 1912.

The amount of security required will be Three Thousand Dollars ($3,000).

Bidders will state a lump sum for the above contract, as the contract is entire and for a complete job.

The estimate cost of the above contract not to exceed Eight Thousand Five Hundred Dollars ($8,500).

Blank forms of the contract and specifications may be obtained at the office of the President of the Borough of Queens.

Dated Long Island City, April 16, 1912.

MAURICE E. CONNOLLY, President of the Borough of Queens. a17,29

☞**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, RICHMOND BOROUGH HALL, ST. GEORGE, NEW BRIGHTON, N. Y., April 20, 1912.

NOTICE IS HEREBY GIVEN, IN ACCORDance with section 432 of the Greater New York Charter, that petitions:

1225. To regulate and grade Wandel ave., between Van Duzer st. and northerly end, to curb, and to build retaining wall, in the Second Ward of the Borough of Richmond. To amend previous Local Board resolution on original petition.

1227. To regulate and grade and to pave and repair sidewalks in Van Duzer st., between Broad st. and St. Paul's ave., in the Second Ward of the Borough of Richmond.

1228. To pave Wright ave. with macadam, in the Third Ward of the Borough of Richmond.

1229. To construct a sewer in Clove ave., between Neckar ave. and Fingerboard road, in the Fourth Ward of the Borough of Richmond.

1230. To construct a public sanitary sewer in Henderson ave. for four hundred feet east of Clinton ave. and connecting with the Clinton ave. sewer.

—has been presented to me and is on file in this office for inspection, and that a meeting of the Local Board of the Staten Island District will be held in Richmond Borough Hall, at St. George, Borough of Richmond, on the 7th day of May, 1912, at 10.30 o'clock in the forenoon, at which meeting said petition will be submitted to said Board.

GEORGE CROMWELL, President of the Borough.

MAYBURY FLEMING, Secretary. a24

FIRE DEPARTMENT.

HEADQUARTERS OF THE FIRE DEPARTMENT OF THE CITY OF NEW YORK, 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. on

MONDAY, MAY 6, 1912,
Borough of Manhattan,

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FITTING STEEL DOORS AT QUARTERS OF H. AND L. CO. 24, 113 AND 115 W. 33D ST.; ENGINE CO. 2, 530 W. 43D ST.; ENGINE CO. 39, 157 E. 67TH ST., AND H. AND L. CO. 16, 159 E. 67TH ST.

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 Twelve Hundred Dollars ($1,200).

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, 157 and 159 E. 67th st., Manhattan.

JOSEPH JOHNSON, Fire Commissioner. a24,m6

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, 13-21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

WEDNESDAY, APRIL 24, 1912,

for a lease of the partly improved premises situated under the Manhattan approach to the Brooklyn Bridge, being known and described as follows:

Two arches facing Water st., together with land of the Department of Bridges adjacent thereto, having a frontage of 144 feet more or less on Water st., and running back 150 feet along Dover st., the plot being irregular,

—for a period of one year, at an upset price of five thousand dollars 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'KEEFFE, Commissioner.
Dated April 9, 1912. a10,24

DEPARTMENT OF BRIDGES, 13-21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges, at the above office until 2 o'clock p. m., on

WEDNESDAY, APRIL 24, 1912.

for a lease of the bulkhead situate in the Borough of The Bronx, at the foot of E. 149th st., under the 145th Street Bridge, said property extending along the bulkhead line 150 feet, more or less, and containing about 5,600 feet available for storage purposes, for a period of one year, at an upset price of Fifteen Hundred Dollars 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'KEEFFE, Commissioner.
Dated April 9, 1912. a10,24

DEPARTMENT OF BRIDGES, 13-21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

WEDNESDAY, APRIL 24, 1912,

for a lease of the land under the southeast approach to the Third Avenue Bridge, Manhattan, together with certain wharf or bulkhead privileges included therein, for a period of one year, at an upset price of Two Thousand One Hundred Dollars 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'KEEFFE, Commissioner.
Dated April 9, 1912. a10,24

MUNICIPAL CIVIL SERVICE COMMISSION.

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 23, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

TUESDAY, APRIL 23, 1912, TO 4 P. M.
TUESDAY, MAY 7, 1912.

for the position of

INVESTIGATOR (MALE).

No application delivered at the office of the Commission by mail or otherwise later than 4 p. m. May 7, 1912, will be accepted.

The examination will be held Tuesday, June 4, 1912, at 10 o'clock a. m.

The subjects and weights of the examination are as follows: Duties, 5; experience, 3; report, 2. Seventy per cent. is required on the final average.

The duties of the position require the incumbent to investigate the personal history of applicants for the Police and Fire Departments; to investigate the truth of the statements made by applicants on their experience papers, and to make investigations with reference to the administration of the Civil Service Law in the City Departments.

Minimum age, 21 years; 1 vacancy in the Municipal Civil Service Commission; salary, $1,500 per annum.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of same.

F. A. SPENCER, Secretary. a23,m7

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 18, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

THURSDAY, APRIL 18, 1912, TO 4 P. M.
THURSDAY, MAY 2, 1912.

for the position of

CHIEF EXAMINER, BUREAU OF FIRE PREVENTION.

No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m., May 2, 1912, will be accepted.

Examination will be held TUESDAY, MAY 28, 1912, at 10 a. m.

The subjects and weights of the examination are as follows: Technical, 5; Experience, 3; Plan Details, 2. Seventy-five per cent. is required on the technical paper and seventy per cent. on all.

Candidates should show at least five years' experience as Architect or Builder or engaged in construction work within the city and at least one year in an executive position of some responsibility in connection with the inspection or erection, or repairs of buildings. They will be required to show their ability to interpret plans and to indicate changes necessary to conform with the building laws. They should be thoroughly familiar with the requirements of the laws governing the security of buildings and safety of their occupants as indicated in the Tenement House Law, the Factory Inspection and Fire Department regulations.

Minimum age, 25 years; salary, $2,500 per annum; one vacancy in the Bureau of Fire Prevention.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same.

FRANK A. SPENCER, Secretary. a18,m2

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 16, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

TUESDAY, APRIL 16, 1912, TO 4 P. M.
TUESDAY, APRIL 30, 1912.

for the position of

INSPECTOR OF BOILER AND PIPE COVERING, GRADE 2.

No application delivered at the office of the Commission, by mail or otherwise, after 4 p. m. April 30, 1912, will be accepted.

Examination will be held THURSDAY, MAY 23, 1912, at 10 a. m.

The subjects and weights of the examination are as follows: Duties (including report), 5; Experience, 5. Seventy per cent. is required on the final average.

Candidates should show a familiarity with the systems of piping and heating, the fire risks from the same, and a knowledge of the various non-combustibles and non-conductors employed for insulation of pipes from heat and moisture.

Candidates should show an experience in connection with heating plants by steam, hot air or hot water, as operating engineer or as a builder. Experience in the installation of such systems is particularly sought.

Minimum age, 21 years; vacancies, none at present; salary, $1,200 per annum.

Application blanks will be mailed upon request, but the Commission will not guarantee the receipt of same.

FRANK A. SPENCER, Secretary. a16,30

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 15, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

MONDAY, APRIL 15, 1912, TO 4 P. M.
MONDAY, APRIL 29, 1912,

for the position of

INSPECTOR, BUREAU OF FIRE PREVENTION (FEMALE), GRADES 2 AND 3.

No application delivered at the office of the Commission by mail or otherwise after 4 p. m., April 29, 1912, will be accepted.

Physical examination will precede mental.

The dates of the examination will be announced later.

The subjects and weights of the examination are as follows: Experience, 3; report, 1; duties (special practical paper), 3; duties (application of laws), 3. Seventy per cent. is required on each of the "Duties" papers and seventy per cent. on all.

The duties of the Inspector will be to inspect buildings, with a view to noting all hazardous conditions of construction, occupancy and use as loft, shop, factory, tenement, theatre, etc., to ascertain sufficiency of means of escape; to investigate complaints or reports of officers of the Fire Department, as to fire risks, and to recommend such proper safeguards as may reduce or prevent fire dangers.

The candidate should have a knowledge of fire breeding causes, electric wiring, explosive materials, fire protection devices, means of extinguishing fires, methods of inspection and familiarity with the laws of the Bureaus of Buildings, Labor and Fire Prevention, Tenement House Department and Municipal Explosives Commission so far as they affect inception of fires and protection of life.

Minimum age, 25 years; maximum age, 40 years; vacancies, 6; salaries, $1,200, $1,500, $1,800 per annum.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same.

FRANK A. SPENCER, Secretary. a15,29

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 13, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

SATURDAY, APRIL 13, 1912, TO 12 M.
SATURDAY, APRIL 27, 1912,

for the position of

ARCHITECTURAL DESIGNER, GRADE E.

No application delivered at the office of the Commission by mail or otherwise after 12 m. April 27, 1912, will be accepted.

Examination will be held THURSDAY, MAY 16, and MONDAY, MAY 20, 1912, at 10 o'clock a. m.

The subjects and weights of the examination are as follows: Technical, 8; experience, 2. Seventy-five per cent. is required on the technical and seventy per cent. on all.

First Day.

Data of each drawing and the scale to be used will be furnished to applicants on examination day.

DRAWINGS REQUIRED.

Hours, 10 to 12.

Q. 1 and 2. Make ⅛-inch scale sketch plan from data to be given; may be on tracing paper.

Hours, 12 to 12.40.

Q. 3. Elevation of a given classic order.

Hours, 1 to 6.

Q. 4, 5, 6. Design, and render on Whatman paper, facade for given plan.

Second Day.

Hours, 10 to 12.

Q. 7 and 8. Sketch design for decorative work of character to be designated.

Q. 9. Free hand pencil sketch of given ornament.

Hours, 12.20 to 6.

Q. 10, 11 and 12. Perspective drawing of given building.

Candidates must furnish the following: Drawing instruments, T-square, triangle, scale, etc.; pencils, crayons, inks, pens, color-box, brushes, glass saucers, etc. One board at least 30 by 42 inches, with a mounted sheet of Whatman's "Double Elephant" paper. One board at least 18 inches by 24 inches.

Other materials will be supplied by the Commission.

Applicants must have had at least two years' experience in an architect's office; or must have studied for at least two years in some approved school of architecture. Each applicant will be called upon to state the name of the architect or school referred to, which will not be subject to verification, however, unless the applicant passes the examination and is called upon for service in some City Department.

Minimum age, 21 years; 1 vacancy in the Board of Water Supply; salary, $2,400 per annum.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same.

FRANK A. SPENCER, Secretary. a13,27

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 10, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

WEDNESDAY, APRIL 10, 1912, TO 4 P. M.
WEDNESDAY, APRIL 24, 1912,

for the position of

PATHOLOGIST.

No application delivered at the office of the Commission by mail or otherwise after 4 p. m., April 24, 1912, will be accepted.

Examination will be held FRIDAY, MAY 17, 1912, at 10 a. m.

The subjects and weights of the examination are as follows: Technical, 6; Experience, 4. Seventy-five per cent is required on the technical paper and seventy per cent. on all.

The requirement of citizenship is waived for this examination.

The examination will be open to non-residents of the State of New York as well as to residents. The requirement that each application shall bear the certificates of four reputable persons resident or engaged in business in the City of New York is waived for this examination, and applications bearing the certificates of non-residents will be accepted.

Minimum age, 21 years; vacancies, one in Department Charities; salary, $1,200 per annum and upwards.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same.

FRANK A. SPENCER, Secretary. a10,24

MUNICIPAL CIVIL SERVICE COMMISSION, 299 BROADWAY, NEW YORK, April 12, 1912.

PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

FRIDAY, APRIL 12, 1912, TO 4 P. M.
FRIDAY, APRIL 26, 1912,

for the position of

LIBRARIAN, CITY COURT, GRADE 4.

No application delivered at the office of the Commission by mail or otherwise, after 4 p. m. April 26, 1912, will be accepted.

Examination will be held TUESDAY, MAY 21, 1912, at 10 a. m.

The subjects and weights of the examination are as follows: Duties, 60; experience, 40.

Seventy per cent. is required on "duties" paper and seventy per cent. on "experience."

Candidates will be expected to have a knowledge of law, sufficient to be able to give reliable assistance in finding, and examination of, authorities for the use of the judges upon decisions of motions and other special proceedings, as well as memoranda for their use at trials. Should be familiar with digests, reports, citations and reference books, sufficient to give facility in the search for legal precedents. Should know how to keep up the physical condition of a law library as to annotation, renovation, additions, etc. Should be familiar with standard legal works, authors, new publications and revisions, also classification, cataloguing and indexing.

In this examination candidates who have been employed in the larger law libraries as Assistants, Briefing Clerks or otherwise, and those who are admitted to the bar, or who have a good, general, legal education, will be considered to have experience best fitting them for the position.

Minimum age, 21 years; vacancy, 1 in City Court; salary, $3,000 per annum.

Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same.

FRANK A. SPENCER, Secretary.
a12,26

DEPARTMENT OF PARKS.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL, CENTRAL PARK, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS WILL BE RECEIVED BY the Park Commissioner at the above office of the Department of Parks, until 12 o'clock m., on

MONDAY, APRIL 29, 1912,

FOR THE PRIVILEGE OF SELLING REFRESHMENTS (SPIRITUOUS LIQUORS EXCEPTED) AT THE DAIRY, CENTRAL PARK, DURING THE PERIOD FROM MAY 1, 1912, TO DECEMBER 31, 1912, UNLESS SOONER REVOKED.

No bids will be considered unless accompanied by a certified check or money to the amount of one-quarter of the sum bid for the rent and privilege. Balance of rent to be paid in three subsequent payments on the first of each of the succeeding three months.

The bids will be compared and the privilege will be awarded to the highest responsible bidder. The Commissioner reserves the right to reject any or all bids.

Form of proposal and full information as to bidding can be obtained at the Arsenal, Central Park, New York City.

CHARLES B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.
Dated, April 22. 1910. a22,29

OFFICE OF DEPARTMENT OF PARKS, ARSENAL BUILDING 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR FURNISHING AND DELIVERING FRESH BEEF AND FISH AT MENAGERIE, PROSPECT PARK, BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be 184 days.

The amount of the security required is $700.

Bids must be submitted in duplicate.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF A SHELTER IN McCARREN PARK, BOUNDED BY DRIGGS AND BEDFORD AVES., LORIMER AND N. 12TH STS., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be 100 days.

The amount of the security required is Nine Thousand Dollars ($9,000).

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 McKim, Mead & White, architects, 160 5th ave., Borough of Manhattan, The City of New York, where plans and specifications may be seen.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR FURNISHING AND DELIVERING FORAGE AT PROSPECT PARK, BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be 184 days.

The amount of security required is Two Thousand Dollars ($2,000).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Bids must be submitted in duplicate.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR FURNISHING AND DELIVERING THREE THOUSAND (3,000) CUBIC YARDS OF COW BAY SAND TO PARKS AND PARKWAYS, BOROUGH OF BROOKLYN

The time allowed for the completion of this contract will be 30 days.

The amount of security required is Two Thousand Dollars.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Bids must be submitted in duplicate.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Manhattan,

FOR ALL LABOR AND MATERIALS REQUIRED FOR FURNISHING AND ERECTING IRON FENCES AROUND THE CENTER PLOTS IN SEVENTH AVE., FROM 110TH ST. TO 153D ST.

The amount of security required is Twenty Thousand Dollars ($20,000).

The time allowed to complete the whole work will be two hundred (200) consecutive calendar days.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Plans may be seen and blank forms may be obtained at the office of the Department of Parks, Arsenal, Central Park, New York City.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Queens.

FOR FURNISHING AND DELIVERING ONE GASOLINE MOTOR ROAD ROLLER.

The amount of security required is Fifteen Hundred Dollars ($1,500).

The time allowed to complete the whole work will be thirty (30) consecutive calendar days.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Bids must be made in duplicate.

Plans may be seen and blank forms may be obtained at the office of the Department of Parks, Arsenal, Central Park, New York City.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR REPAIRS TO BUILDINGS SITUATED AT NOS. 121 AND 123 FURMAN ST., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be thirty (30) days.

The amount of security required is Five Hundred Dollars ($500).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board, at the above office of the Department of Parks, until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR RESURFACNIG WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PITKIN AVE., FROM STONE AVE. TO EASTEN PARKWAY EXTENSION, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The time allowed for the completion of this contract will be thirty (30) days.

The amount of security required is Eight Thousand Dollars ($8,000).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,

FOR ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF A SHELTER IN MORNINGSIDE PARK, BOUNDED BY 110TH AND 111TH STS. AND MORNINGSIDE AVE., BOROUGH OF MANHATTAN.

The time allowed for the completion of this contract will be 100 days.

The amount of the security required is Nine Thousand Dollars ($9,000).

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 McKim, Mead & White, architects, 160 5th ave., Borough of Manhattan, The City of New York, where plans and specifications may be seen.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR CONSTRUCTING CEMENT WALKS ON THE EAST SIDEWALK OF OCEAN PARKWAY, BETWEEN PROSPECT PARK AND CONEY ISLAND, BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Six Thousand Dollars ($6,000).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PLAYGROUND APPARATUS McKIBBIN PLAYGROUND, AT SEIGEL, WHITE AND McKIBBIN STS., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Eight Hundred Dollars ($800).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912,
Borough of Brooklyn.

FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PLAYGROUND APPARATUS MCKIBBIN PLAYGROUND, AT SEIGEL, WHITE AND McKIBBIN STS., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Eight Hundred Dollars ($800).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912.
Borough of Brooklyn.

FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PLAYGROUND APPARATUS, BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Two Thousand Dollars ($2,000).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912.
Borough of Brooklyn.

FOR CONSTRUCTING PARK ON PLOT BOUNDED BY EAST NEW YORK AVE., BARRETT ST., PITKIN AVE. AND GRAFTON ST., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Two Thousand Dollars ($2,000).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912.
Borough of Brooklyn.

FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PLAYGROUND APPARATUS IN BUSHWICK PLAYGROUND, ON PUTNAM AVE., BETWEEN KNICKERBOCKER AVE. AND IRVING AVE., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be sixty (60) days.

The amount of security required is Eight Hundred Dollars ($800).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion, Prospect Park West and 5th st., Prospect Park, Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912.
Borough of Brooklyn.

FOR FURNISHING ALL LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND COMPLETION OF PLAYGROUND APPARATUS IN RED HOOK PLAYGROUND, AT RICHARD, KING, DWIGHT AND PIONEER STS., BOROUGH OF BROOKLYN.

The time allowed for the completion of this contract will be thirty (30) days.

The amount of security required is Two Hundred Dollars ($200).

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms may be obtained at the office of the Department of Parks, Borough of Brooklyn, Litchfield Mansion. Prospect Park West and 5th st., Prospect Park. Brooklyn.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Park Board at the above office of the Department of Parks until 3 o'clock p. m. on

THURSDAY, MAY 2, 1912.
Borough of Brooklyn.

FOR ALL LABOR AND MATERIALS REQUIRED FOR THE MANUFACTURING, FURNISHING, DELIVERY, ERECTION AND COMPLETION OF ADDITIONAL EXHIBITION AND STORAGE CASES AND OTHER EQUIPMENT IN THE CENTRAL MUSEUM OF THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES, BOROUGH OF BROOKLYN, CITY OF NEW YORK.

The time allowed for the completion of this contract will be one hundred and twenty (120) days.

The amount of the security required is Five Thousand Dollars ($5,000).

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 McKim, Mead & White, architects, 160 5th ave., Borough of Manhattan, The City of New York, where plans and specifications may be seen.

CHARLES B. STOVER, President; THOMAS J. HIGGINS, MICHAEL J. KENNEDY, WALTER G. ELIOT, Commissioners of Parks.
a20,m2

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

BOARD OF ASSESSORS.

PUBLIC NOTICE IS HEREBY GIVEN TO all persons claiming to have been injured by a change of grade in the regulating and grading of the following named streets to present their claims, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, on or before May 7, 1912, at 11 o'clock a. m., at which place and time the said Board of Assessors will receive evidence and testimony of the nature and extent of such injury. Claimants are requested to make their claims for damages upon the blank form prepared by the Board of Assessors, copies of which may be obtained upon application at the above office:

Borough of Queens,

2543. Center street from Wyckoff avenue to Myrtle avenue.

2547. George street from Wyckoff avenue to Myrtle avenue.

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, April 20, 1912. a22,m2

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 The Bronx.

2383. Regulating, grading, curbing, flagging and paving Freeman st., between Stebbins and Intervale aves.

The area of assessment extends to within half the block at the intersecting streets.

2326. Sewer in Riverdale ave., between W. 259th st. and the summit south of W. 259th st.

2472. Basin at the southeast corner of Crescent ave. and Hughes ave.

Affecting Block No. 3087.

2422. Curbing and flagging Whittier st., between Garrison and Ludlow aves.

Borough of Queens.

2337. Regulating, grading, curbing and flagging 15th ave., between Newtown road and Grand ave., 1st Ward.

The area of assessment extends to within half the block of the intersecting streets.

Borough of Brooklyn.

2185. Regulating, grading, curbing and flagging 89th st., between 3d and 5th aves.

2242. Regulating, grading, curbing and flagging Brooklyn ave., between Clarkson st. and Ditmas ave.

2309. Regulating, grading, curbing N. Henry st., between Greenpoint ave. and Greene st.

2346. Regulating, grading, curbing and flagging 42d st., between 13th and 14th aves.

2351. Regulating, grading, curbing and flagging Livonia ave., between Hinsdale and Van Sinderen aves.

2352. Regulating, grading, curbing and flagging New York ave., between Clarendon road and Snyder ave.

2447. Regulating, grading, curbing and flagging Brooklyn ave., between Avenues G and I.

2452. Regulating, grading, curbing and flagging E. 23d st., between Clarendon road and Beverley road.

2458. Regulating, grading, curbing and flagging Montrose ave., as extended between Union ave. and Broadway.

2462. Regulating, grading, curbing and flagging 70th st., between 13th and 14th aves. and between 18th and 22d aves.

2476. Regulating, grading, curbing and flagging 1st ave., between 50th and 60th sts.

2480. Regulating, grading, curbing and flagging Tilden ave., between Nostrand ave. and Holy Cross Cemetery.

The area of assessment extends to within half the block at the intersecting streets.

2457. Curbing and flagging Louisa st. (south side), between Chester ave. and 36th st.

2475. Flagging Albany ave., between Montgomery and Lefferts st.; Prospect place, between Franklin and Classon aves.; north side of St. Marks ave., between Grand and Classon aves.; south side of 40th st., between 5th and 6th aves.; 49th st., between a point 100 feet west of 7th ave. and a point 100 feet east of 7th ave. Where necessary.

2407. Basin at the northeast corner of Surf ave. and W. 11th st.

Affecting Lot 213 of Block 7268.

2493. Basins on E. 8th st., at the southwest corner of Church ave.; the northwest corner of Beverley road; opposite Turner place; and opposite Hinckley place; also at the southeast and southwest corners of E. 7th st. and Church ave., and on the northwest corner of E. 7th st. and Beverley road.

Affecting Block Nos. 5339 and 5340.

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 May 21, 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, April 20, 1912. a20,m1

PUBLIC NOTICE IS HEREBY GIVEN TO the owner or owners of all houses and lots, improved or unimproved lands affected thereby, that the following proposed assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.

Borough of Brooklyn.

2375. Grading, curbing and flagging 59th st., between 7th and Fort Hamilton aves.

Affecting the property in front of which the work was done.

2443. Regulating, grading, curbing and flagging Avenue D, between E. 34th and E. 35th sts.

2444. Regulating, grading, curbing, flagging and paving Avenue I, between E. 34th and E. 35th sts.

2446. Regulating, grading, curbing, flagging and paving Barbey st., between Jamaica and Sunnyside aves.

2450. Grading, curbing, flagging and paving E. 10th st., between Church and Caton aves.

2451. Regulating, grading, paving, curbing and flagging E. 21st st., between Beverley road and Regent place.

2455. Paving Howard place, from Windsor place to Prospect ave.

2456. Paving and curbing Huntington st., from Henry st. to Hamilton ave.

2460. Paving and curbing E. 16th st., from Newkirk ave. to a point about 145 feet north.

2465. Regulating, grading, curbing and flagging Sterling place, between Rochester and Utica aves.

2466. Regulating, grading, curbing and flagging Snyder ave., between Nostrand and New York aves.

2469. Regulating, grading, curbing and flagging Van Siclen ave., between New Lots road and Dumont ave.

2474. Paving and curbing Avenue M, from Ocean ave. to the easterly line of E. 27th st.

2478. Regulating, grading, curbing and flagging 19th ave., between 79th and 86th sts.

The area of assessment in the above lists extends to within one-half the block of 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 May 14, 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, April 13, 1912. a13,24

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

WEDNESDAY, MAY 1, 1912,

No. 1. FOR CONSTRUCTING SEWERS AND APPURTENANCES IN E. 177TH ST., FROM PUGSLEY AVE. TO LELAND AVE.; AND IN THE SOUTH SIDE OF E. 177TH ST., FROM LELAND AVE. TO THERIOT AVE.; AND IN LELAND AVE., BETWEEN E. 177TH ST. AND WESTCHESTER AVE.; AND IN THERIOT AVE., BETWEEN E. 177TH ST. AND WESTCHESTER AVE.; AND IN WESTCHESTER AVE., BETWEEN PUGSLEY AVE. AND THERIOT AVE.; AND IN THE PLAZA, AT THE INTERSECTION OF E. 177TH ST. AND WESTCHESTER AVE., TOGETHER WITH ALL THE WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

841 linear feet of concrete sewer, 9 feet by 7 feet 6 inches.
408 linear feet of concrete sewer, 9 feet by 7 feet 2 inches.
382 linear feet of concrete sewer, 9 feet by 6 feet 10 inches.
22 linear feet of concrete sewer, 9 feet by 6 feet 6 inches.
321 linear feet of concrete sewer, 3 feet 9 inches diameter.
90 linear feet of pipe sewer, 30-inch.
347 linear feet of pipe sewer, 24-inch.
306 linear feet of pipe sewer, 20-inch.
296 linear feet of pipe sewer, 18-inch.
366 linear feet of pipe sewer, 15-inch.
4,310 linear feet of pipe sewer, 12-inch.
175 linear feet of 6-inch pipe as risers for house connections, including the supporting and surrounding Class "C" concrete.
522 spurs for house connections over and above the cost per linear foot of sewer.
68 manholes, complete.
10 receiving basins, complete.
6,325 cubic yards of rock excavation.
150 cubic yards of Class "B" concrete.
160,000 feet (B. M.) of timber.
1,000 pounds of steel bars in foundation.
200 linear feet of pipe drain, 12 inch to 24 inch.

The time allowed for the completion of the work will be three hundred (300) consecutive working days.

The amount of security required will be Sixty Thousand Dollars ($60,000).

No. 2. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND ERECTING FENCES WHERE NECESSARY IN AQUEDUCT AVENUE EAST, FROM E. 180TH ST. TO E. 184TH ST., TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

3,920 cubic yards of earth excavation.
2,550 cubic yards of rock excavation.
3,800 cubic yards of filling.
4,260 linear feet of new curb.
310 linear feet of old curb.
7,610 square feet of cement flagging.
750 square feet of new bridge stone.
230 square feet of old bridge stone.
30 cubic yards of dry rubble masonry.
785 linear feet of guard rail.
2 standard receiving basins rebuilt.

The time allowed for the completion of the work will be one hundred and twenty-five (125) working days.

The amount of security required will be Five Thousand Five Hundred Dollars ($5,500).

No. 3. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION THE ROADWAY OF HOE AVE., FROM E. 172D ST. TO E. 173D ST., AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

2,040 square yards of completed asphalt block pavement (3-inch blocks), and keeping the same in repair for five years from date of acceptance.
320 cubic yards of Class "B" concrete, including mortar bed.
160 linear feet of new curbstone, furnished and set.
1,080 linear feet of old curbstone, rejointed, recut on top and reset.

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 Four Hundred Dollars ($2,400).

No. 4. FOR PAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF AQUEDUCT AVE., FROM W. 181ST ST. TO FORDHAM ROAD, AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

9,500 square yards of completed sheet asphalt pavement, including binder course, and keeping the pavement in repair for five years from date of acceptance.
5,250 square yards of completed sheet asphalt pavement, including binder course, not to be kept in repair.
2,330 cubic yards of concrete.
1,100 linear feet of new curbstone, furnished and set.
3,250 linear feet of old curbstone, rejointed, recut on top and reset.

The time allowed for the completion of the work will be ninety (90) consecutive working days.

The amount of security required will be Twelve Thousand Dollars ($12,000).

No. 5. FOR PAVING WITH BUTIMINOUS PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF BRONX PARK AVE., FROM TREMONT AVE. TO WALKER AVE., ADJUSTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

1,975 square yards of completed bituminous pavement, and keeping the pavement in repair for five years from date of acceptance.
225 cubic yards of concrete.
1,130 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 One Thousand Dollars ($1,000).

No. 6. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION, THE ROADWAY OF E. 178TH ST., FROM CROTONA AVE. TO SOUTHERN BOULEVARD AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

3,635 square yards of completed asphalt block pavement (2-inch blocks), and keeping the same in repair for five years from date of acceptance.
600 cubic yards of Class "B" concrete, including mortar bed.
300 linear feet of new curbstone, furnished and set.
2,470 linear feet of old curbstone, rejointed, recut on top and reset.

The time allowed for the completion of the work will be thirty (30) consecutive working days.

The amount of security required will be Four Thousand Four Hundred Dollars ($4,400).

No. 7. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION, THE ROADWAY OF PLIMPTON AVE., FROM BOSCOBEL AVE. TO W. 169TH ST. AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

2,770 square yards of completed asphalt block pavement (2-inch blocks), and keeping the same in repair for five years from date of acceptance.
475 cubic yards of Class "B" concrete, including mortar bed.
250 linear feet of new curbstone, furnished and set.
1,780 linear feet of old curbstone, rejointed, 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 Three Thousand Dollars ($3,000).

No. 8. FOR PAVING WITH ASPHALT BLOCKS ON A CONCRETE FOUNDATION THE ROADWAY OF E. 173D ST., FROM 3D AVE. TO FULTON AVE., AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

570 square yards of completed asphalt block pavement (2-inch blocks), and keeping the same in repair for five years from date of acceptance.
101 cubic yards of Class "B" concrete, including mortar bed.
440 linear feet of new curbstone, furnished and set.

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. 9. FOR REPAVING WITH SHEET ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF BERGEN AVE., FROM WESTCHESTER AVE. TO BROOK AVE., AND SETTING CURB WHERE NECESSARY, TOGETHER WITH ALL WORK INCIDENTAL THERETO.

The Engineer's estimate of the work is as follows:

3,660 square yards of completed sheet asphalt pavement, including binder course, and keeping the pavement in repair for five years from date of acceptance.
510 cubic yards of concrete.
100 linear feet of new curbstone, furnished and set.

The time allowed for the completion of the work will be thirty (30) consecutive working days.

The amount of security required will be Three Thousand Dollars ($3,000).

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. a19,m1

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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, MAY 9, 1912,

Item No. 1—FURNISHING LABOR AND MATERIAL REQUIRED IN THE ERECTION AND COMPLETION OF A GYMNASIUM IN SQUADRON C ARMORY, IN THE BOROUGH OF BROOKLYN.
Security required, $2,500.
Deposit required, $125.
Time allowed for doing the work ninety (90) working days.

Item No. 2—FURNISHING LABOR AND MATERIALS IN THE RECONSTRUCTION OF THE DRILL HALL, AND OTHER IMPROVEMENTS IN THE SEVENTH REGIMENT ARMORY, BOROUGH OF MANHATTAN.
Security required, $50,000.
Deposit required, $2,500.
Time allowed for doing the work ninety (90) working days.

Item No. 3—FURNISHING LABOR AND MATERIALS REQUIRED IN THE ERECTION OF THE NEW EIGHTH ARTILLERY DISTRICT ARMORY, IN THE BOROUGH OF THE BRONX.
Security required, $250,000.
Deposit required, $12,500.
Time allowed for doing the work four hundred (400) working days.

Item No. 4—FURNISHING LABOR AND MATERIALS REQUIRED IN THE ALTERATIONS, ETC., IN THE SIXTY-NINTH REGIMENT ARMORY, BOROUGH OF MANHATTAN.
Security required, $10,000.
Deposit required, $500.
Time allowed for doing the work sixty (60) working days.

Item No. 5—FURNISHING LABOR AND MATERIALS REQUIRED FOR ALTERATIONS, IMPROVEMENTS, ETC., IN THE TWENTY-THIRD REGIMENT ARMORY, BOROUGH OF BROOKLYN.
Security required, $7,500.
Deposit required, $375.
Time allowed for doing the work sixty (60) working days.

Item No. 6—FURNISHING ALL LABOR AND MATERIALS FOR THE INSTALLATION OF A COMPLETE EQUIPMENT OF TWENTY-EIGHT (28) FLAMING ARC LAMPS, IN THE 2D BATTERY ARMORY, BOROUGH OF THE BRONX.
Security required, $2,000.
Deposit required, $100.
Time allowed for doing the work, sixty (60) working days.

The bids will be compared and the contracts 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 Armory Board, 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 at the office of the Armory Board, Room 6, New Hall of Records (basement), Borough of Manhattan.

For Items Nos. 1 and 3 plans may be examined at the office of Pilcher & Tachau, architects, 109 Lexington ave., Borough of Manhattan.

For Items Nos. 2, 4 and 5, plans may be examined at the office of F. L. Robinson, 331 Madison ave., Borough of Manhattan.

For Item No. 6, plans may be examined at the office of the Armory Board, Hall of Records, Room 6 (basement).

WILLIAM J. GAYNOR, Mayor; WILLIAM A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, 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. a18,m9

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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 2 o'clock p. m., on

MONDAY, MAY 6, 1912,
Borough of Brooklyn.

NO. 1. FOR METAL CEILINGS, ETC. (FIRE PROTECTION), AT PUBLIC SCHOOLS 4, 10, 29, 32, 40, 46, 60 AND GIRL'S HIGH SCHOOL, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows: P. S. 4, $400; P. S. 10, $300; P. S. 29, $600; P. S. 32, $600; P. S. 40, $500; P. S. 46, $400; P. S. 60, $600; G. H. S., $1,500.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 2. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 18, 23, 31, 34, 37, 110, 126, 132, 143 AND EASTERN DISTRICT HIGH SCHOOL, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 18, $500; P. S. 23, $300; P. S. 31, $500; P. S. 34, $700; P. S. 37, $400; P. S. 110, $700; P. S. 126, $300; P. S. 132, $1,000; P. S. 143, $800; E. D. H. S., $400.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 3. FOR FURNISHING AND DELIVERING GLASS TO VARIOUS SCHOOLS IN THE BOROUGH OF BROOKLYN.

The time allowed to complete the whole work will be sixty (60) working days, as provided in the contract.

The amount of security required is Sixteen Hundred Dollars ($1,600).

The proposal to be submitted must include the entire work on all schools and award will be made thereon.

On Nos. 1 and 2, the Bidders must state the price of each item, by which the bids will be tested.

On No. 3, the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan, and also at Branch Office, No. 131 Livingston st., Borough of Brooklyn.

Dated April 24, 1912.

C. B. J. SNYDER, Superintendent of School Buildings. a24,m6

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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 2 o'clock p. m., on

MONDAY, MAY 6, 1912,
Borough of Manhattan,

NO. 4. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 2, 7, 12, 15, 22, 34, 36, 42, 62, 64, 65, 71, 88, 92, 105, 110, 126, 147, 177 AND 188, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 2, $1,000; P. S. 7, $400; P. S. 12, $300; P. S. 15, $300; P. S. 22, $400; P. S. 34, $300; P. S. 36, $200; P. S. 42, $500; P. S. 62, $700; P. S. 64, $800; P. S. 65, $400; P. S. 71, $500; P. S. 88, $400; P. S. 92, $600; P. S. 105, $200; P. S. 110, $600; P. S. 126, $300; P. S. 147, $500; P. S. 177, $500; P. S. 188, $400.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 5. ALTERATIONS AND REPAIRS TO HEATING AND VENTILATING APPARATUS IN PUBLIC SCHOOLS 37, 57, 68, 109, 119, 157, 170, 171 AND WADLEIGH HIGH SCHOOL, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work on each school will be sixty (60) working days, as provided in the contract.

The amount of security required is as follows: P. S. 37, $700; P. S. 57, $200; P. S. 68, $500; P. S. 109, $400; P. S. 119, $200; P. S. 157, $600; P. S. 170, $500; P. S. 171, $300; W. H. S., $200.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 6. FOR INSTALLING ELECTRIC EQUIPMENT IN ADDITION TO AND ALTERATIONS IN PUBLIC SCHOOL 132, ON THE EASTERLY SIDE OF WADSWORTH AVE., BETWEEN W. 182D AND 183D STS., BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be one hundred (100) working days, as provided in the contract.

The amount of security required is Three Thousand Dollars ($3,000).

Borough of Richmond,

NO. 7. FOR ALTERATIONS, REPAIRS, ETC., AT CURTIS HIGH SCHOOL AND PUBLIC SCHOOLS 1, 2, 3, 4, 5, 8, 12, 13, 14, 15, 16, 17, 18, 20, 23 and 32, BOROUGH OF RICHMOND.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: C. H. S., $300; P. S. 1, $100; P. S. 2, $100; P. S. 3, $100; P. S. 4, $100; P. S. 5, $100; P. S. 8, $100; P. S. 12, $200; P. S. 13, $100; P. S. 14, $400; P. S. 15, $100; P. S. 16, $300; P. S. 17, $400; P. S. 18, $300; P. S. 20, $200; P. S. 23, $300; P. S. 32, $100.

A separate proposal must be submitted for each school and award will be made thereon.

On Nos. 4, 5 and 7, the bidders must state the price of each item, by which the bids will be tested.

On No. 6, the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan, and also at Branch Office, Borough Hall, New Brighton, Borough of Richmond, for work for their respective boroughs.

Dated April 24, 1912.

C. B. J. SNYDER, Superintendent of School Buildings. a24,m6

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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 2 o'clock p. m., on

MONDAY, MAY 6, 1912,
Various Boroughs.

NO. 8. FOR FURNISHING AND DELIVERING MATERIALS FOR THE USE OF MECHANICS (ELECTRICAL DIVISION, BUILDING BUREAU), IN THE PUBLIC SCHOOLS OF THE CITY OF NEW YORK, IN THE BOROUGHS OF MANHATTAN, BROOKLYN, THE BRONX, QUEENS AND RICHMOND.

Completion—The time for the delivery of the materials and the performance of the contract is by or before the 31st day of December, 1912.

Security—Each bid or estimate must be accompanied by a certified check or cash to the amount of two and one-half (2½) per centum of the amount of the total aggregate cost of all items bid upon.

In case the aggregate cost of all items awarded to any one contractor is less than One Thousand Dollars ($1,000) no bond, contract or sureties will be necessary for such contractor. In case the aggregate cost of all items bid upon by one contractor is less than Five Hundred Dollars ($500), no sureties need be provided by such contractor when bidding.

Only one bid will be received from a bidder for each item.

Note—The attention of all intending bidders is expressly called to pages 1, 2 and 3 of the printed specifications.

The bidders must state the price of each item contained in the printed specifications, by which the bids will be tested.

Award will be made to the lowest bidder on each item.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms, printed specifications and further information may be obtained at the office of the Superintendent of School Buildings, at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan.

Dated April 24, 1912.

C. B. J. SNYDER, Superintendent of School Buildings. a24,m6

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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 Supplies at the above office of the Department of Education until 11 o'clock a. m., on

FRIDAY, MAY 3, 1912,

FOR FURNISHING AND DELIVERING SUPPLIES FOR THE VACATION SCHOOLS OF THE CITY OF NEW YORK.

The time for the delivery of the articles, materials and supplies, and the performance of the contract is by or before December 31, 1912.

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 and schedules herein contained or hereto annexed, per pound, dozen, gallon, foot, yard or other unit of measure, by which the bids will be tested. Award will be made to the lowest bidder on each item whose sample is equal to the Board sample.

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 Superintendent of School Supplies, Board of Education, Borough of Manhattan, southwest corner of Park ave. and 59th st.

PATRICK JONES, Superintendent of School Supplies.

Dated April 22, 1912. a22,m3

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

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 2 o'clock p. m. on

MONDAY, APRIL 29, 1912,
Borough of Brooklyn.

NO. 1. FOR METAL CEILINGS, ETC. (FIRE PROTECTION), AT PUBLIC SCHOOLS 3, 24, 25, 43, 44, 50, 55, 57 AND 70, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be thirty (30) working days, as provided in the contract.

The amount of security required is as follows: P. S. 3, $800; P. S. 24, $200; P. S. 25, $1,000; P. S. 43, $800; P. S. 44, $200; P. S. 50, $300; P. S. 55, $600; P. S. 57, $600; P. S. 70, $700.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 2. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 27, 30, 32, 46, 77, 94, 131 AND MANUAL TRAINING HIGH SCHOOL, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 27, $400; P. S. 30, $700; P. S. 32, $500; P. S. 46, $1,200; P. S. 77, $500; P. S. 94, $200; P. S. 131, $1,500; M. T. H. S., $1,000.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 3. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 80, 98, 100, 102, 103, 104, 105, 118, 127, 128 and 140, BOROUGH OF BROOKLYN.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 80, $1,000; P. S. 98, $300; P. S. 100, $400; P. S. 102, $500; P. S. 103, $700; P. S. 104, $1,000; P. S. 105, $600; P. S. 118, $400; P. S. 127, $600; P. S. 128, $300; P. S. 140, $400.

A separate proposal must be submitted for each school 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, and also at branch office, 131 Livingston st., Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated April 17, 1912. a17,29

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

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 2 o'clock p. m. on

MONDAY, APRIL 29, 1912,
Borough of Manhattan,

NO. 4. FOR OUTSIDE IRON STAIRS, NEW IRON BRIDGE, NEW FIREPROOF MAIN STAIRS, AND ENCLOSING PUPILS' STAIRS, ETC., AT PUBLIC SCHOOLS 2, 19, 32 AND 105, BOROUGH OF MANHATTAN.

The time allowed to complete the whole work on each school will be as follows:

P. S. 2, ninety (90) working days.
P. S. 19, two hundred (200) working days.
P. S. 32, sixty (60) working days.
P. S. 105, forty-five (45) working days.

—as provided in the contract.

The amount of security required is as follows: P. S. 2, $1,200; P. S. 19, $2,500; P. S. 32, $800; P. S. 105, $400.

A separate proposal must be submitted for each school and award will be made thereon.

Borough of Queens,

NO. 5. FOR IMPROVING THE SANITARY CONDITION, ETC., OF PUBLIC SCHOOLS 1, 4, 9, 59, 79 and Parental School, Borough of Queens.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 1, $200; P. S. 4, $200; P. S. 9, $300; P. S. 59, $200; P. S. 79, $100; Parental School, $400.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 6. FOR FIRE PROTECTION ALTERATIONS AT PUBLIC SCHOOLS 1, 5, 6, 49, 50, 82 AND BRYANT HIGH SCHOOL, Borough of Queens.

The time allowed to complete the whole work on each school will be to September 1, 1912, as provided in the contract.

The amount of security required is as follows: P. S. 1, $3,500; P. S. 5, $1,500; P. S. 6, $8,500; P. S. 49, $400; P. S. 50, $400; P. S. 82, $2,000; Bryant High School, $2,500.

A separate proposal must be submitted for each school and award will be made thereon.

NO. 7. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 12, 16, 17, 17 ANNEX, 19, 67, 68, 72, 78, 81, 86, 87, 88, 89 AND NEWTOWN HIGH SCHOOL, BOROUGH OF QUEENS.

The time allowed to complete the whole work on each school will be fifty-five (55) working days, as provided in the contract.

The amount of security required is as follows: P. S. 12, $100; P. S. 16, $300; P. S. 17, $200; P. S. 17, Annex, $200; P. S. 19, $300; P. S. 67, $200; P. S. 68, $400; P. S. 72, $200; P. S. 78, $100; P. S. 81, $300; P. S. 86, $300; P. S. 87, $200; P. S. 88, $300; P. S. 89, $100; Newtown High School, $300.

A separate proposal must be submitted for each school and award will be made thereon.

On Nos. 4, 5, 6 and 7, 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, and also at branch office, 59 Broadway, Flushing, Borough of Queens, for work for their respective Boroughs.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated April 17, 1912. a17,29

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

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 Supplies at the above office of the Department of Education until 11 a. m. on

MONDAY, APRIL 29, 1912,

FOR FURNISHING AND ERECTING AWNING FRAMES FOR VACATION PLAYGROUNDS OF THE CITY OF NEW YORK.

The time for furnishing and erecting the materials and the completion of the work, as provided in the contract, will be on or before July 1, 1912.

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 and schedules herein contained or hereto annexed, by which the bids will be tested.

Award will be made to the lowest bidder on each item.

Bids must be submitted in duplicate, each in a separate envelope.

Blank forms and further information may be obtained at the office of the Superintendent of School Supplies, Board of Education, Borough of Manhattan, southwest corner of Park ave. and 59th st.

PATRICK JONES, Superintendent of School Supplies.

Dated April 17, 1912. a17,29

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

LAW DEPARTMENT.

NOTICE TO APPOINT A NEW ATTORNEY.

NEW YORK SUPREME COURT.
COUNTY OF NEW YORK.

Raffaele Agilio, plaintiff, against The City of New York, defendant.

Also the following actions against the same defendant brought by the following-named plaintiffs:

Agistino, Nicola; Aiello, Antonio; Albrecht, Herman; Albrecht, Herman; Alfano, Domenico; Allimara, Genaro; Amondolari, Joseph; Antonucci, Antonio; Baffa, Joseph; Baffa, Joseph; Baimondo, Joseph; Baimondo, Joseph; Banger, Herman L.; Banger, Herman L.; Barrone, Pellerino; Barry, James; Barrone, Peter; Baxter, Samuel I.; Baxter, Samuel I.; Beckley, Jacob; Begalia, Ambrose; Bennett, James; Bergerson, Michael; Bergerson, Michael; Berman, Harris; Beyer, George; Biamonte, Nicola; Binco, Carmine; Bird, Thomas; Bizsak, Anton; Bizsak, Antonio; Bizzaro, Angelo; Bizzaro, Angelo; Bizzaro, Angelo; Blasel, Henry; Booker, Clayborne; Bonadeo, Lawrence; Bradley, James; Brandwein, Jacob; Brennan, Henry; Bria, Andrew; Brianco, John; Bruno, William; Buchanan, Joseph; Busceicchio, Guiseppe; Caggiano, Matteo; Caggrano, Matteo; Caivana, Pasquale; Caivana, Pasquale; Calibera, Vincenzo; Callahan, Martin; Callahan, Martin; Callahan, Patrick; Callahan, Tim; Campono, Domenico; Capola, Joseph; Capolo, Joseph; Capone, Christopher; Capone, Florindo; Capone, Guiseppe; Cappeggio, Gerardo; Cappozzolo, Domenico; Cappozolo, Domenick; Carbo, Vito; Carey, Dennis; Carey, Dennis; Carey, Patrick; Carollo, Antonio; Carozzo, Genaro; Carrella, Pietro; Carroll, Martin; Carrono, Como; Casa, Genaro; Casella, Andra; Casey, Michael; Casey, William; Cassella, Andrea; Cassella, Cono; Cavollo, Antonio; Celbilo, Francesco; Charner, Charles E.; Chierichella, Rocco; Chierichella, Rocco; Chionello, Raffaelo; Christofaro, Angelo; Cicco, Giovanni; Ciliberti, Francesco; Ciliberto, Francesco; Cirigliano, Donato; Clarke, Charles F.; Clarke, John; Clarke, John; Clayton, William H.; Clifford, Edward; Cogan, Thomas; Cohen, Marcus; Colutumis, Saverio; Comban, Dom; Comiso, Domenico; Condon, John; Connolly, Bernard; Connors, Patrick; Consalve, Gus; Coolahan, John; Coolohan, John; Coporate, Guiseppe; Coriello, Allesandro; Coriello, Alexandro; Cortese, Dom; Cortese, Giovanni; Cosella, Andrea; Coso, Gernazo; Costello, Nicola; Cucco, Giovanni; Cuisi, Nicola; Cuisi, Nicola; Cunza, James; Cuoce, Nichols; Crane, Patrick; Crane, Patrick; Creman, James; Cremerius, Patrick; Crum, Edwin F.; Crum, John; O'Adamo, Genaro; D'Anglis, Giovanni; D'Anna, Guiseppe; D'Araglio, Antonio; Davis, Samuel; D'Bet, Pasquale; D'Bet, Pasquale; De Belisso, Jaquinto; De Brazio, Antonio; De Brazio, Antonio; Decicco, Donato; De Cillo, Nicola; Decliara, Matteo; Delaneo (or De Lanso); De Lanso, Vitterio; De Lanso, Vitterio; Dellaroso, James; Delficio, Angelo; Dern, John; Dern, John; Derrico, Michael; Devins, Patrick; De Vito, Guiseppe; Di Belo, Pasquale; Diclerico, Camille; Difiori, Francesca; Dihm, John; Dillon, John; Dillon, William; Dilworth, Michael; Dilworth, William; Dimurico, Guiseppe; Dinkelmyer, Simon; Domingi, John; Domisco, Domenico; Donati, Charles H.; Donnelly, John; Dotti, Vinvent; Dowling, John; Downey, Morris; Downer, Morris; Doyle, William; Durnin, John; D'Venero, Pallegrino; Ebineth, Rupert; Engelhardt, Peter J.; Eriani, Nicola; Eriani, Vincenzo; Errichetti, Louis; Evans, Gilbert; Faherty, John; Fay, Patrick; Falci, Michael; Falke, George; Farca, Antonio; Farca, Antonio; Farino, Carmine; Fariovino, Francesco; Farley, James; Farmac, Dayco; Fascelli, Nicola; Faulkner, Hugh; Favorino, Francesco; Fazio, Carmine; Fazzio, Frank; Felder, Ignatz; Felder, Isaac; Ferraro, Guilo; Fuerstein, Mathias; Fiori, Pasquale; Fisiglio, Antonio; Flynn, Richard; Foley, Cornelius; Fomatano, Genorosa; Forsmit, Morris; Frabisilio, Michael; Frager, John B.; Fralto, Vincenzo; Frasalone, Guiseppe; Frashella, Allexandro; Fraterio, Frank; Fritte, Sabatina; Fritter, Sabatino; Froio, Gregorio; Froio, Gregorio; Fucelli, Nicola; Gaetano, Frank; Galifo, Guiseppe; Galliezo, Salvatore; Gamania, Vincenzo; Gargano, Antonio; Gargano, Antonio; Garracino, Angelo M.; Geneto, Gaetano; Gentile, Domenico; Gentilesco, Guiseppe; Gentilesco, Guiseppe; Gilmartin, Andrew; Gilmartin, Patrick; Gilmartin, Peter; Giovanni, Carlo; Godello, Joseph; Goldman, James E.; Goldman, Max; Goldstein, David; Gordon, George; Gordon, Patrick; Gramm, Vincenso; Granelli, Antonio; Granito, Salvatore; Gray, Michael; Harris, James E.; Hendricks, Michael; Higgins, David; Highbergh, John J.; Hogan, Joseph; Hughes, John M.; Hummer, Bruno; Hurst, Jack; Iglio, Andrea; Imprianano, Raffaele; Irianni, Vincent; Isaacs, Isidor; Janerone, Antonio; Jung, Andrew; Katka, Joseph; Kashlilak, Karl; Kelly, Thomas; Kemberg, David; Kenegly, David; Kenny, Patrick; Kenny, Patrick; Kenny, William; Kostelock, Karl; Kraft, Fred; Laggese, Antonio; Laino, Salvatore; Lanzo, Giovanni; La Pietta, Pietro; La Pretta, Pietro; Latarizilo, Pelligrino; Latarizilo, Pellegrino; Lay, Samuel; Le Bentone, Rafael; Le Bertone, Rafael; Leddy, William; Lefkowitz, Nathan; Lemon, Chesley; Liberato, Antonio; Liberatori, Antonio; Libertine, Benjamin; Libertino, Barney; Libertino, Pasquale; Lifrieri, Pasquale; Lipkowitz, Isadore; Lipkowitz, Joseph; Lombard, James; Lombardo, Donato; London, Francis; Luisi, Nicola; Luisi, Nicola; Lunza, Charles; McAvoy, John V.; McCauley, Patrick; McCauley, Patrick; McDonald, John; McDowell, William; McEttrick, Thomas; McGrath, Michael; McKenna, John P.; McKenna, John P.; McKiernan, Thomas; McKiernan, Thomas; McMahon, John; McSweeney, John; Macceo, Giovanni; Madden, John; Malo, Joseph; Mangiero, John; Mangiero, John; Manieri, Pasquale; Manna, August; Marcha, Luchiano; Marchetti, Donato; Mariano, Celantonio; Marino, Angelo A.; Mara, Antonio; Marrci, Alfonso; Martin, James; Martin, Robert; Martin, Robert; Marziotta, Salvatore; Masterson, Thomas; Matteste, Salvatore; Matteste, Salvatore; Matturo, Francesco; Mazola, Joseph; Mazza, Generoso; Mazzeo, Alfonso; Mazzola, Joseph; Menga, Antonio; Menza, Antonio; Mergi, Guiseppe; Mergi, Guiseppe; Metorio, Michele; Miles, David; Minici, Giorgia; Mogavero, Angelo; Molinaro, Guiseppe; Molinaro, Guiseppe; Monaco, Paul; Monaco, Joseph; Monerillo, Cono; Moore, John; Moran, James; Moran, James; Mozze, Genaro; Mozze, Genaro; Mulhearn, Patrick; Murphy, Martin; Musto, Antonio; Myers, David; Newman, Joseph; O'Brien, Felix; O'Connor, John; O'Donovan, John; O'Leary, William; Orlas, Joseph; Ostman, Emanuel; Pacceola, Pasquale; Papa, Domenico; Papa, Domenico; Pasquale, Carmine; Passanane, Frank; Paulli, Antonio; Pellegrino, Santa; Pellegrino, Santa; Pellodine, Joseph; Perrille, John; Phelan, Edward; Pirano, Antonio; Pirano, Antonio; Pizzano, Antonio; Pollard, Joseph R.; Pollito, Michele; Pompilio, Miami; Pompilio, Miarni; Prager, Julius; Propkin, Josef; Purcell, Edward; Puzinso, Raffaele; Puzinso, Raffaele; Rabold, Anton; Ragone, Salvatore; Raimondo, Joe; Regan, Hugh; Reilly, Matthew; Remis, Saverio; Renne, Francesco; Richer, Frank; Riccardi, Vito; Riccardi, Vito; Rinn, William; Ritterman, Thurstin; Roach, Patrick; Rohna, Hans; Romanelli, Guiseppe; Romanello, Joe; Rosa, William L.; Russo, Raffaele; Sabatino, Frank; Sala, George; Salamone, Nicola; Salamome, Pasquale; Salamone, Vito; Salamono, Pietro; Salumbene, George; Salumbene, George; Sammone, Anton; Sandorconglee, P.; Santagata, Vincenzo; Sa Rohnar, Hans; Scalise, Angelo; Scalise, Angelo; Scalise, Gaspore; Schatz, Max; Scheltisse, Pellegrino; Schieffo, Michael; Schonter, Victor; Schontz, Benj.; Schwinte, Victor; Shiffo, Michael; Siegal, Abraham; Sippo, John; Sippo, Mike; Smith, Charles; Smith, Charles M.; Smith, Thomas; Spellane, John; Spina, Mattia; Spirito, Angelo; Stark, Philip; Stephenson, Frank; Stoiber, Henry; Strashun, Alexander; Stratico, Nicola; Sullivan, Daniel; Tafferi, Daniel; Tavollo, Tony; Tempone, Frank; Tempone, Frank; Tempone, Vincenzo; Terranora, Leonardo; Timpoli, Nicola; Titrillo, Augustino; Titrillo, Augustino; Tobin, James; Tortoriello, Antonio; Tuoti, Nicola; Turkheimer, Bernhard; Tuscano, Manuel; Tynan, Peter; Varollo, Perry; Vecchio, Pasquale; Walsh, John; Weismer, Benjamin; White, Richard; Wilson, Clayborn; Wolf, Gustav; Woytisek, Joseph; Wynnes, Solon; Yomell (or Yourrell), Lawrence; Yourell (or Yourrell), Lawrence; Zambri, Cipriano; Zuna, Charles; Zuna, Charles; Zuna, Charles; Scala, Genorosa; Silner, Pius.

To each of the above-named plaintiffs:

In actions brought in the above-named Court to recover salary alleged to be due during the period of suspension as Sweepers in the Department of Street Cleaning of The City of New York, or as employees of the Bureau of Highways, Borough of Manhattan, you are hereby notified, pursuant to section 65 of the Code of Civil Procedure, to appoint another attorney in place of the late W. V. Goldberg, Esq., deceased, within thirty days of the date of publication of this notice; and you are further notified that in case of your failure to comply with this notice, and inasmuch as your present address and whereabouts are unknown, you will be deemed to have elected to appear henceforth in person; and pursuant to section 800 of the Code of Civil Procedure, all future papers in each of the above entitled actions will be served upon you by serving a copy thereof upon the Clerk of this Court, unless within the said thirty days you give notice to me of your present residence within the State of New York, or designate some person within that State upon whom service of papers may be made.

Dated New York, April 15, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Attorney for Defendant, Hall of Records, Borough of Manhattan, New York City.

To each of the above-named plaintiffs:

The foregoing notice is served upon you by publication, pursuant to an order of Hon. Henry Bischoff, a Justice of the Supreme Court of the State of New York, dated the 15th day of April, 1912, and filed in the office of the Clerk of the County of New York, at the County Court House, in the Borough of Manhattan, City, County and State of New York, on the 15th day of April, 1912.

Dated New York, April 15, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Attorney for Defendant, Hall of Records, Borough of Manhattan, New York City.

a22,m2

POLICE DEPARTMENT.

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

SATURDAY, MAY 4, 1912,

FOR FURNISHING AND DELIVERING TWO AUTOMOBILES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is thirty days from the date of the execution thereof, 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 amount of security required will be fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item, and the Police Commissioner will award the contract to the lowest bidder on each item for all the articles, materials or supplies specified and contained in the specifications and schedules.

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, in the form approved by the Corporation Counsel, 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.

The City of New York, April 20, 1912.

a23,m4

☞**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.

DEPARTMENT OF CORRECTION.

DEPARTMENT OF CORRECTION, 148 E. 20TH ST., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

THURSDAY, APRIL 25, 1912,

No. 1. FOR FURNISHING AND DELIVERING HARDWARE, PAINTS, IRON, STEAM FITTINGS, LUMBER AND MISCELLANEOUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before December 31, 1912.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item and awards made to the lowest bidder on each item. The bids on lumber will be compared and the contract awarded at a lump or aggregate sum for each contract.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, 148 E. 20th st.

PATRICK A. WHITNEY, Commissioner.

Dated April 12, 1912. a13,25

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

DEPARTMENT OF CORRECTION, No. 148 E. 20TH ST., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m., on

THURSDAY, APRIL 25, 1912,

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED TO MAKE THE NECESSARY REPAIRS AND COPPER THE STEAMER "RIKER ISLAND."

The time for the completion of the work and the full performance of the contract is by or before thirty (30) working days.

The amount of security required is fifty per cent. (50%) of amount of bid or estimate. Bids will be compared and the contract awarded at a lump or aggregate sum.

NO. 2. FOR FURNISHING AND DELIVERING DRUGS, ETC.

The time for the delivery of the articles, materials and supplies and the performance of the contract is during the year 1912.

The amount of security required is fifty per cent. (50%) of amount of bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total for each item and awards made to the lowest bidder on each item.

Bids must be submitted in duplicate, each in a separate envelope. No bid will be accepted unless this provision is complied with.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 E. 20th st.

PATRICK A. WHITNEY, Commissioner.

Dated April 11, 1912. a13,25

☞**See General Instructions to Bidders on the last page, last column, of the "City Record."**

BOARD OF WATER SUPPLY.

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply at its offices, seventh floor, 165 Broadway, New York, until 11 a. m. on

TUESDAY, MAY 7, 1912,

for

CONTRACT AB.

FOR FURNISHING AND DELIVERING 25 HORSES FOR MOUNTED PATROLMEN ON AQUEDUCT SERVICE, AT KENSICO PRECINCT, BOARD OF WATER SUPPLY POLICE, KENSICO, NEW YORK.

Further information is given in the Information for Bidders, forming part of the contract. At the above place and time bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

A bond in the sum of fifty (50) per cent. of the total amount of the contract will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of The City of New York to the amount of five (5) per cent. of the amount of the bond or security required for the faithful performance of the contract.

Time allowed for the completion of deliveries is ten months from the service of notice by the Board to begin deliveries.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, etc., can be obtained at the above address, upon application in person or by mail, by depositing the sum of five dollars ($5) in currency, or check drawn to the order of the Board of Water Supply, for each pamphlet. This deposit will be refunded upon the return of the pamphlets in acceptable condition within thirty days from the date on which bids are to be opened.

CHARLES STRAUSS, President; CHARLES N. CHADWICK, JOHN F. GALVIN, Commissioners of the Board of Water Supply.

JOSEPH P. MORRISSEY, Secretary.

NOTE—SEE GENERAL INSTRUCTIONS TO BIDDERS ON LAST PAGE, LAST COLUMN, OF THE "CITY RECORD," SO FAR AS APPLICABLE HERETO AND NOT OTHERWISE PROVIDED FOR. a19,m7

SEALED BIDS WILL BE RECEIVED BY the Board of Water Supply at its offices, seventh floor, 165 Broadway, New York, until 11 a. m. on

TUESDAY, MAY 7, 1912,

FOR CONTRACT 132.

FOR BORINGS ON AND NEAR THE SITE OF THE PROPOSED SILVER LAKE RESERVOIR, SITUATED ABOUT HALF A MILE WEST OF TOMPKINSVILLE, AND ABOUT TWO MILES BY TROLLEY FROM ST. GEORGE FERRY, STATEN ISLAND, BOROUGH OF RICHMOND, NEW YORK CITY.

An approximate statement of the quantities of the various items of work and further in-

formation are given in the Information for Bidders, forming part of the contract. At the above place and time bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board reserves the right to reject any and all bids.

A bond in the sum of Three Thousand Dollars ($3,000) will be required for the faithful performance of the contract.

No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of The City of New York to the amount of Five Hundred Dollars ($500).

Time allowed for the completion of the work is five (5) months from the service of notice by the Board to begin work.

Pamphlets containing information for bidders, forms of proposal and contract, specifications, etc., can be obtained at the above address, upon application in person or by mail, by depositing the sum of Five Dollars ($5) in currency, or check drawn to the order of the Board of Water Supply, for each pamphlet. This deposit will be refunded upon the return of the pamphlets in acceptable condition within thirty (30) days from the date on which bids are to be opened.

CHARLES STRAUSS, President; CHARLES N. CHADWICK, JOHN F. GALVIN, Commissioners of the Board of Water Supply.

JOSEPH P. MORRISSEY, Secretary.

NOTE—SEE GENERAL INSTRUCTIONS TO BIDDERS ON LAST PAGE, LAST COLUMN OF THE "CITY RECORD," SO FAR AS APPLICABLE HERETO AND NOT OTHERWISE PROVIDED FOR. a18,m7

PUBLIC SERVICE COMMISSION.

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) 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 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 one hundred thousand dollars ($100,000). 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 four hundred thousand dollars ($400,000). 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, April 12, 1912.

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

TRAVIS H. WHITNEY, Secretary. a16,m7

DEPARTMENT OF PUBLIC CHARITIES.

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. on

TUESDAY, APRIL 30, 1912,

FOR FURNISHING AND DELIVERING FURNITURE, CARPETS, RUGS, WINDOW SHADES, LINENS, CROCKERY, GLASSWARE, SILVERWARE, ETC., FOR NEW NURSES' HOME ON RANDALLS ISLAND.

The time for the performance of the contract is during the year 1912.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate.

The bidder will state the price per piece, per dozen or other unit, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each class, line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the Department, foot of E. 26th st., Borough of Manhattan.

MICHAEL J. DRUMMOND, Commissioner.

The City of New York, April 17, 1912. a18,30

☞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. on

MONDAY, APRIL 29, 1912,

FOR FURNISHING AND DELIVERING MEDICAL AND SURGICAL SUPPLIES.

The time for the performance of the contract is during the year 1912.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate.

The bidder will state the price per pound, dozen, gallon, yard, etc., by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each class, line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the General Drug Department, Bellevue Hospital Grounds, E. 26th st., Borough of Manhattan.

MICHAEL J. DRUMMOND, Commissioner.

The City of New York, April 16, 1912. a17,29

☞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.

BOROUGHS OF BROOKLYN AND QUEENS.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock p. m. on

MONDAY, APRIL 29, 1912,

FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE ERECTION AND ENTIRE COMPLETION OF A STAFF HOUSE 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 fifty thousand dollars ($50,000).

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 April 15, 1912. a17,29

☞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, in The City of New York, until 2 o'clock p. m., on

MONDAY, APRIL 29, 1912,

ITEM A. GENERAL CARPENTERING WORK IN CONNECTION WITH REPAIRS TO FREE FLOATING BATHS.

ITEM B. BUILDING NEW PONTOONS AND REPAIRING AND RECAULKING OLD PONTOONS IN FREE FLOATING BATHS.

The time allowed for doing and completing the work will be thirty-five (35) consecutive calendar working days.

The security required will be Three Thousand Dollars ($3,000).

The bidder will state a price for each item as described and specified, as the bids will be compared and the contract may be awarded at a lump or aggregate sum, or for each item, at the discretion of the Borough President.

Blank forms and specifications may be obtained at the office of the Auditor, offices of the Commissioner of Public Works, 18th floor, 13 to 21 Park row, Borough of Manhattan.

GEORGE McANENY, President.

City of New York, April 18, 1912. a18,29

☞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, in The City of New York, until 2 o'clock p. m., on

FRIDAY, APRIL 26, 1912.

NO. 1. FOR FURNISHING AND DELIVERING THREE THOUSAND (3,000) CUBIC YARDS OF PAVING SAND.

The time allowed for doing and completing the above contract will be until December 31, 1912.

The amount of security required will be Five Hundred Dollars ($500).

NO. 2. FOR FURNISHING AND DELIVERING THIRTY-FOUR THOUSAND (34,000) GALLONS OF ASPHALT ROAD OIL, TOGETHER WITH ALL THE NECESSARY LABOR AND APPARATUS FOR APPLYING THE SAME TO THE SURFACE OF THE MACADAM ROADWAY, AS PER ATTACHED SPECIFICATIONS, ON RIVERSIDE DRIVE, BETWEEN 158TH ST. AND DYCKMAN ST.; FORT WASHINGTON AVE., BETWEEN 181ST ST. AND BROADWAY; W. 154TH ST., BETWEEN ST. NICHOLAS AVE. AND AMSTERDAM AVE; DYCKMAN ST., BETWEEN BROADWAY AND THE SPEEDWAY, AND W. 145TH ST., BETWEEN 8TH AVE. AND AMSTERDAM AVE.

Engineer's estimate of the amount of work to be done:

Riverside drive, between 158th st. and Dyckman st., about 17,200 gallons in two (2) applications.

Fort Washington ave., between 181st st. and Broadway, about 9,000 gallons in two (2) applications.

W. 154th st., between St. Nicholas ave. and Amsterdam ave., about 600 gallons in two (2) applications.

Dyckman st., between Broadway and the Speedway, about 3,200 gallons in one (1) application.

W. 145th st., between 8th ave. and Amsterdam ave., about 4,000 gallons in three (3) applications.

The time allowed for doing and completing the above work will be until September 15, 1912.

The amount of security required will be Six Hundred and Fifty Dollars ($650).

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.

City of New York, April 16, 1912. a16,26

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

BOROUGH OF BROOKLYN.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at the above office until 11 o'clock a. m., on

WEDNESDAY, MAY 1, 1912.

NO. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN MERMAID AVE., FROM W. 24TH ST. TO W. 37TH ST.; IN W. 36TH ST., FROM SURF AVE. TO MERMAID AVE.; IN W. 35TH ST., FROM SURF AVE. TO MERMAID AVE.; IN W. 33D ST., FROM SURF AVE. TO THE NORTHERLY LINE OF NEPTUNE AVE.; IN W. 32D ST., FROM SURF AVE. to NEPTUNE AVE.; IN W. 31ST ST., FROM SURF AVE. TO NEPTUNE AVE.; IN W. 30TH ST., FROM SURF AVE. TO NEPTUNE AVE.; IN W. 29TH ST., FROM MERMAID AVE. TO NEPTUNE AVE.; AND IN W. 28TH ST., FROM SURF AVE. TO THE NORTHERLY LINE OF NEPTUNE AVE.

The Engineer's preliminary estimate of the quantities is as follows:

No. 1. 36 linear feet of 54-inch brick and concrete sewer, laid complete, including all incidentals and appurtenances, per linear foot, $10..	$360 00
No. 2. 1,660 linear feet of 42-inch brick and concrete sewer, laid complete, including all incidentals and appurtenances, per linear foot, $8.50.	14,110 00
No. 3. 1,185 linear feet of 30-inch brick and concrete sewer, laid complete, including all incidentals and appurtenances, per linear foot, $5.20.	6,162 00
No. 4. 298 linear feet of 24-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $4.10	1,221 80
No. 5. 893 linear feet of 22-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $3.90.	3,482 70
No. 6. 836 linear feet of 18-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $5.90..	4,932 40
No. 7. 1,131 linear feet of 15-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $4.60	5,202 60
No. 8. 1,428 linear feet of 12-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $3.70	5,283 60
No. 9. 7,171 linear feet of 10-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $3.40	24,381 40
No. 10. 3,198 linear feet of 8-inch pipe sewer, laid complete, including concrete cradle and all incidentals and appurtenances, per linear foot, $2.25	7,195 50
No. 11. 6,040 linear feet of 6-inch house connection drain (storm), laid complete, including concrete casing and all incidentals and appurtenances, per linear foot, $1.10.....	6,644 00
No. 12. 18,000 linear feet of 6-inch house connection drain (sanitary), laid complete, including concrete casing and all incidentals and appurtenances, per linear foot, $1.80.....	32,400 00
No. 13. 426 stand pipes complete, including double "Y" branch, concrete casing and all incidentals and appurtenances, per stand pipe, $4.00.....	1,704 00
No. 14. 128 manholes complete, with iron heads and covers, including all incidentals and appurtenances, per manhole, $60	7,680 00
No. 15. 48 sewer basins, as shown on plan, with iron heads and gratings, iron basin hoods, including connecting culverts, with concrete cradle and all incidentals and appurtenances, per basin, $140.....	6,720 00
No. 16. 275,000 feet (B. M.) of foundation planking and pile capping laid in place complete, including all incidentals and appurtenances, per thousand feet (B. M.), $28.....	7,700 00
No. 17. 10,000 feet (B. M.) of sheeting and bracing driven in place complete, including all incidentals and appurtenances, per thousand feet (B. M.), $20.....	200 00
No. 18. 31,000 linear feet of piles, driven in place complete, including all incidentals and appurtenances, per linear foot, 25 cents.....	7,750 00
Total	$143,130 00

The time allowed for the completion of the work and full performance of the contract will be three hundred (300) working days.

The amount of security required will be Fifty Thousand Dollars ($50,000).

NO. 2. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR CONSTRUCTING SEWERS IN E. 12TH ST., E. 13TH ST., E. 14TH ST. AND E. 15TH ST., EACH FROM AVENUE H TO AVENUE J; IN AVENUE H, FROM CONEY ISLAND AVE. TO THE BRIGHTON BEACH RAILROAD; AND IN CONEY ISLAND AVE., BOTH SIDES, FROM THE END OF THE EXISTING SEWER, ABOUT 400 FEET NORTH OF AVENUE H TO ABOUT THE NORTHERLY PROPERTY LINE OF THE LONG ISLAND RAILROAD (BETWEEN AVENUES H AND I.)

The Engineer's preliminary estimate of the quantities is as follows:

No. 1. 1,595 linear feet of 42-inch brick sewer, laid complete, including all incidentals and appurtenances, per linear foot, $5.85.....	$9,330 75
No. 2. 522 linear feet of 36-inch brick sewer, laid complete, including all incidentals and appurtenances, per linear foot, $4.90.....	2,557 80
No. 3. 79 linear feet of 30-inch brick sewer, laid complete, including all incidentals and appurtenances, per linear foot $4.45.....	351 55
No. 4. 2,650 linear feet of 18-inch pipe sewer, laid complete, including all incidentals and appurtenances, per linear foot, $2.35.....	6,227 50
No. 5. 356 linear feet of 15-inch pipe sewer, laid complete, including all incidentals and appurtenances, per linear foot, $1.85.....	658 60
No. 6. 4,060 linear feet of 12-inch pipe sewer, laid complete, including all incidentals and appurtenances, per linear foot, $1.60.....	6,496 00
No. 7. 8,300 linear feet of 6-inch house connection drain, laid complete, including all incidentals and appurtenances, per linear foot, $0.80.....	6,640 00
No. 8. 1 siphon complete, including all incidentals and appurtenances, per siphon, $4,000.....	4,000 00
No. 9. 75 manholes complete, with iron heads and covers, including all incidentals and appurtenances, per manhole, $50	3,750 00
No. 10. 21 sewer basins complete, of either standard design, with iron pans or gratings, iron basin hoods and connecting culverts, including all incidentals and appurtenances, per basin, $125	2,625 00
No. 11. 4 sewer basins reconnected complete, including all incidentals and appurtenances, per reconnection, $25.	100 00
No. 12. 33 house connections reconnected complete, including all inci-	

dentals and appurtenances, per reconnection, $5 ..... 165 00
No. 13. 15,500 feet, board measure, of foundation planking, laid in place complete, including all incidentals and appurtenances, per thousand feet, board measure, $25..... 387 50
No. 14. 5,000 feet, board measure, of sheeting and bracing, driven in place complete, including all incidentals and appurtenances, per thousand feet, board measure, $18..... 90 00

Total $43,379 70

The time allowed for the completion of the work and full performance of the contract will be ninety-five (95) working days.

The amount of security required will be Fifteen Thousand Dollars ($15,000).

The foregoing Engineer's preliminary estimate of the total cost for the completed work is to be taken as the 100 per cent. basis and test for bidding. Proposals shall each state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent., or 105 per cent.), for which all materials and work called for in the proposed contracts and the notices to bidders are to be furnished to the City. Such percentage, as bid for this contract, shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Brooklyn.

ALFRED E. STEERS, President. a19,m1

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn, at the above named office until 11 o'clock a. m. on

WEDNESDAY, MAY 1, 1912,

FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR REPAIRS AND ALTERATIONS TO THE FOUR FREE FLOATING BATHS, IN THE BOROUGH OF BROOKLYN.

The time allowed for the compleiton of the work and the full performance of the contract is until May 25, 1912.

The amount of security required will be Fifteen Hundred Dollars ($1,500).

The 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 Bureau of Public Buildings and Offices, Room 29, Municipal Building, Borough of Brooklyn.

ALFRED E. STEERS, Borough President.
Dated April 18, 1912. a19,m1

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at the above office until 11 o'clock a. m. on

WEDNESDAY, MAY 1, 1912.

1. FOR REGULATING, CURBING AND PAVING WITH ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF E. 18TH ST., FROM AVENUE K TO A POINT 100 FEET SOUTHERLY.

The Engineer's estimate is as follows:

377 square yards asphalt pavement (5 years maintenance).
55 cubic yards concrete.
60 linear feet bluestone heading stones set in concrete.
85 cubic yards excavation to subgrade.
230 linear feet cement curb (1 year maintenance).

Time allowed, fifteen (15) working days.

Security required, Two Hundred and Fifty Dollars ($250).

2. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS ON HUNTERFLY ROAD, FROM HERKIMER ST. TO ATLANTIC AVE.

The Engineer's estimate is as follows:

750 linear feet new curbstone set in concrete.
50 linear feet old curbstone reset in concrete.
300 cubic yards earth excavation.
10 cubic yards earth filling (not to be bid for).
3,810 square feet cement sidewalks (1 year maintenance).

Time allowed, fifteen (15) working days.

Security required, Five Hundred Dollars ($500).

3. FOR REGULATING AND PAVING WITH ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF HUNTERFLY ROAD, FROM HERKIMER ST. TO ATLANTIC AVE.

The Engineer's estimate is as follows:

971 square yards asphalt pavement (5 years maintenance).
136 cubic yards concrete.

Time allowed, fifteen (15) working days.

Security required, Seven Hundred Dollars ($700).

4. FOR REGULATING AND REPAVING WITH ASPHALT ON A CONCRETE FOUNDATION THE ROADWAY OF SMITH ST., FROM 1ST PLACE TO 3D ST., AND FROM 6TH ST. TO W. 9TH ST.

The Engineer's estimate is as follows:

1,850 square yards asphalt pavement outside railroad area (5 years maintenance).
520 square yards asphalt pavement within railroad area (no maintenance).
30 square yards old stone pavement (to be relaid).
260 cubic yards concrete outside railroad area.
70 cubic yards concrete within railroad area.
1,770 linear feet new curbstone set in concrete.
300 linear feet old curbstone reset in concrete.
15 linear feet granite heading stones set in concrete.
35 linear feet bluestone heading stones set in concrete.

Time allowed, thirty (30) working days.

Security required, Two Thousand Two Hundred Dollars ($2,200).

5. FOR REGULATING AND REPAVING WITH GRADE 1 GRANITE ON A CONCRETE FOUNDATION THE ROADWAY OF SMITH ST., FROM W. 9TH ST. TO HAMILON AVE.

The Engineer's estimate is as follows:

2,750 square yards grade 1 granite pavement with grouted joints outside railroad area (1 year maintenance).
90 square yards of grade 1 granite pavement with grouted joints within railroad area (no maintenance).
20 square yards old stone pavement (to be relaid).
460 cubic yards concrete outside railroad area.
15 cubic yards concrete within railroad area.
1,370 linear feet new curbstone set in concrete.
250 linear feet old curbstone reset in concrete.
1 sewer manhole head and cover.
25 linear feet granite heading stones set in concrete.

Time allowed, thirty (30) working days.

Security required, Four Thousand Dollars ($4,000).

6. FOR CONSTRUCTING CEMENT SIDEWALKS ON FULTON ST., BETWEEN HALE AVE. AND CRESCENT ST. AND VARIOUS OTHER STREETS.

The Engineer's estimate is as follows:

8,040 square feet cement sidewalks (1 year maintenance).

Time allowed, thirty (30) working days.

Security required, Five Hundred Dollars ($500).

7. FOR FENCING VACANT LOTS ON THE WEST SIDE OF DEWEY PLACE, BETWEEN ATLANTIC AVE. AND HERKIMER ST. AND VARIOUS OTHER STREETS.

The Engineer's estimate is as follows:

2,110 linear feet open board fence, six feet high.

Time allowed, thirty (30) working days.

Security required, Three Hundred Dollars ($300).

8. FOR FENCING VACANT LOTS ON THE SOUTH SIDE OF NASSAU AVE., BETWEEN VANDAM ST. AND VARICK AVE. AND VARIOUS OTHER STREETS.

The Engineer's estimate is as follows:

940 linear feet open board fence, six feet high.

Time allowed, fifteen (15) working days.

Security required, One Hundred and Fifty Dollars ($150).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, cubic yard, square yard or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, No. 12 Municipal Building, Brooklyn.

ALFRED E. STEERS, President.
Dated April 16, 1912. a19,m1

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at the above office until 11 o'clock a. m., on Wednesday, April 24, 1912.

WEDNESDAY, APRIL 24, 1912,

1. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK ON PRESENT CONCRETE FOUNDATION THE ROADWAY OF BUSHWICK AVE., FROM MONTROSE AVE. TO McKIBBIN ST., AND FROM FLUSHING AVE. TO ARION PLACE.

The Engineer's estimate is as follows:

4,960 square yards asphalt block pavement, outside railroad area (5 years maintenance).
830 square yards asphalt block pavement, within railroad area (no maintenance).
10 cubic yards concrete outside railroad area.
10 cubic yards concrete within railroad area.
210 linear feet granite heading stones set in concrete.

Time allowed forty (40) working days.

Security required Four Thousand Dollars ($4,000).

2. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK ON PRESENT CONCRETE FOUNDATION THE ROADWAY OF CONCORD ST., FROM DUFFIELD ST. TO NAVY ST.

The Engineer's estimate is as follows:

1,140 square yards asphalt block pavement, outside railroad area (5 years maintenance).
380 square yards asphalt block pavement within railroad area (no maintenance).
10 cubic yards concrete outside railroad area.
10 cubic yards concrete within railroad area.
60 linear feet granite heading stones, set in concrete.

Time allowed, thirty (30) working days.

Security required, One Thousand One Hundred Dollars ($1,100).

3. FOR REGULATING AND REPAVING WITH ASPHALT BLOCK ON PRESENT CONCRETE FOUNDATION THE ROADWAY OF MAUJER ST., FROM FLORENCE ST. TO MORGAN AVE.

The Engineer's estimate is as follows:

4,880 square yards block pavement (5 years maintenance).
10 cubic yards concrete.
80 linear feet granite heading stones set in concrete.

Time allowed, thirty (30) working days.

Security required, Three Thousand Three Hundred Dollars ($3,300).

4. FOR REGULATING AND REPAVING WITH ASPHALT ON PRESENT CONCRETE FOUNDATION THE ROADWAY OF MONITOR ST., FROM NASSAU AVE. TO DRIGGS AVE.

The Engineer's estimate is as follows:

3,155 square yards asphalt pavement (5 years maintenance).
3,150 square yards present asphalt pavement to be removed.
110 cubic yards concrete.
1,080 linear feet new curbstone set in concrete.
720 linear feet old curbstone reset in concrete.
8 noiseless covers and heads for sewer manholes.
33 linear feet granite heading stones set in concrete.

Time allowed, thirty (30) working days.

Security required, Two Thousand Three Hundred Dollars ($2,300).

5. FOR REGULATING, GRADING AND PAVING WITH GRADE 1 GRANITE ON CONCRETE FOUNDATION THE ROADWAY OF H ST., FROM MARKET PLAZA TO WALLABOUT PLACE.

The Engineer's estimate is as follows:

1,090 square yards Grade 1 granite pavement with grouted joints (1 year maintenance).
20 square yards old stone pavement to be relaid.
180 cubic yards concrete.
450 linear feet new curbstone set in concrete.
25 linear feet old curbstone reset in concrete.
500 cubic yards earth excavation.
200 linear feet bluestone heading stones set in concrete.

Time allowed, thirty (30) working days.

Security required, One Thousand Six Hundred Dollars ($1,600).

6. FOR CONSTRUCTING CEMENT SIDEWALKS ON BOTH SIDES OF 82D ST., BETWEEN 11TH AND 12TH AVES., AND ON VARIOUS OTHER STREETS IN THE BOROUGH OF BROOKLYN.

The Engineer's estimate is as follows:

13,170 square feet cement sidewalk (1 year maintenance).

Time allowed, thirty (30) working days.

Security required, Seven Hundred Dollars ($700).

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square foot, square yard, cubic yard, or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, No. 12 Municipal Building, Brooklyn.

ALFRED E. STEERS, President.
Dated April 9, 1912. a12,24

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn, at the above office until 11 o'clock a. m. on

WEDNESDAY, APRIL 24, 1912,

1. FOR FURNISHING AND DELIVERING JANITORS' SUPPLIES TO THE PUBLIC BUILDINGS AND OFFICES.

The time allowed for the delivery of the articles, and the full performance of the contract is sixty (60) days.

The amount of security required will be Six Hundred Dollars ($600).

2. FOR RELAUNDERING TOWELS FOR USE IN THE VARIOUS PUBLIC BUILDINGS, BATHS AND COMFORT STATIONS.

The time allowed for the completion of the work and the full performance of the contract is until December 31, 1912.

The amount of security required is Fifteen Hundred Dollars ($1,500).

The Bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed per pound, dozen, gallon, yard, each or other unit of measure, by which the bids will be tested. The extensions must be made and footed up. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Bidders on supply contracts must furnish duplicate copies of their bids. Failure to do so will be sufficient grounds for rejection.

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 Bureau of Public Buildings and Offices, Room 29, Municipal Building, Borough of Brooklyn.

ALFRED E. STEERS, President.
Dated April 11, 1912. a12,24

☞See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF FINANCE.

Interest on City Bonds and Stocks.

INTEREST ON CITY BONDS AND STOCK.

THE INTEREST DUE ON MAY 1, 1912, ON registered bonds and stock of The City of New York, and of the 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 or in London for the interest due on May 1, 1912, on assessment bonds and corporate stock of The City of New York will be paid on that day, at the option of the holders thereof, either at the office of the Guaranty Trust Company, 28 and 30 Nassau st., New York City, in United States money, or at the office of Messrs. Seligman Brothers, 18 Austin Friars, London, E. C., England, in sterling, at the rate of $4.8780 to the pound.

The coupons that are payable only in New York for interest due on May 1, 1912, on bonds and stock of the present and former City of New York, and of former corporations now included in The City of New York, except the former County of Queens, will be paid on that day at the office of the said Guaranty Trust Company.

The coupons that are payable on May 1, 1912, for interest on bonds issued by the former County of Queens will be paid on that day at the Queens County Bank, Branch of the Corn Exchange Bank, Borden ave. and Front st., Long Island City.

The books for the transfer of bonds and stock on which interest is payable May 1, 1912, will be closed from April 10 to May 1, 1912.

WM. A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's Office, March 20, 1912. m21,may1

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.

Notice to Property Owners.

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:

NINETEENTH WARD, SECTION 5.

WEST FORTY-SEVENTH STREET—RESTORING ASPHALT PAVEMENT in front of Nos. 2, 4 and 6. Area of assessment: South side of W. 47th st., 100 feet west of 5th ave., Lot 42, in Block 1262.

The above assessment was certified to the Collector of Assessments and Arrears, under the provisions of section 391 of the Greater New York Charter.

—that the same was entered on April 17, 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, 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 cntum 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, 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 June 17, 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.

WILLIAM A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's Office, April 17, 1912. a23,m3

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

FIRST WARD.

FOURTH AVENUE—REGULATING, GRADING, CURBING, LAYING SIDEWALKS AND CROSSWALKS, from Flushing ave. to Wolcott ave. Area of assessment: Both sides of 4th ave., from Flushing to Wolcott aves., and to the extent of half the block at the intersecting avenues.

—the above-entitled assessment was confirmed by the Board of Assessors on April 16, 1912, and entered April 16, 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, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at the 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 June 15, 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 the above assessment became a lien to the date of payment.

WM. A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's Office, April 16, 1912. a19,30

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 RICHMOND:

FIRST AND SECOND WARDS.

CONSTRUCTING CURB AND GUTTER in WILLIAM STREET, between Richmond road and Jackson ave. and in OAKLAND AVENUE, between Castleton ave. and Carey ave. Area of assessment affects Lot 46 in Plot 2, 2d Ward, and Lot 3a, in Plot 4, Block 7.

SECOND WARD.

REPAIRING OR CONSTRUCTING STONE AND OTHER FENCES on Serpentine road, between Clove road and the entrance to Bellevue. Area of assessment affects Lot 7, in Plot 13.

—the above entitled assessments were confirmed by the Board of Assessors on April 16, 1912, and entered April 16, 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 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, at Borough Hall, St. George, Borough of Richmond, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before June 15, 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 the above assessments became liens to the date of payment.

WM. A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's Office, April 16, 1912. a19,30

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 9.

EAST ONE HUNDRED AND SIXTY-SIXTH STREET—PAVING THE ROADWAY AND SETTING CURB, from Webster ave. to Morris ave. Area of assessment: Both sides of 166th st., from Webster to Morris aves., and to the extent of half the block at the intersecting streets.

TWENTY-THIRD WARD, SECTION 10.

CRIMMINS AVENUE—PAVING THE ROADWAY AND SETTING CURB, from E. 141st st. to St. Marys st. Area of assessment: Both sides of Crimmins ave. from E. 141st st. to St. Marys st., and to the extent of half the block at the intersecting streets.

TWENTY-THIRD WARD, SECTIONS 10 AND 11.

BRYANT AVENUE—PAVING THE ROADWAY AND SETTING CURB, from Westchester ave. to E. 172d st. Area of assessment: Both sides of Bryant ave., from Westchester ave. to E. 172d st. and to the extent of half the block at the intersecting streets.

LONGFELLOW AVENUE—PAVING THE ROADWAY AND SETTING CURB, from Westchester ave. to Freeman st. Area of assessment: Both sides of Longfellow ave., from Westchester ave. to Freeman st., and to the extent of half the block at the intersecting streets.

TWENTY-FOURTH WARD, SECTION 11.

EAST ONE HUNDRED AND SEVENTY-SECOND STREET—PAVING THE ROADWAY AND SETTING CURB, from Seabury place to Southern boulevard. Area of assessment: Both sides of E. 172d st., from Seabury place to Southern boulevard, and to the extent of half the block at the intersecting streets.

EAST ONE HUNDRED AND EIGHTY-EIGHTH STREET—PAVING THE ROADWAY AND SETTING AND RESETTING CURB, from 3d to Park aves. Area of assessment: Both sides of E. 188th st., from 3d to Park aves., and to the extent of half the block at the intersecting avenues.

LONGFELLOW AVENUE—PAVING THE ROADWAY AND SETTING CURB, from Freeman st., to E. 172d st. Area of assessment: Both sides of Longfellow ave., from Freeman st. to E. 172d st., and to the extent of half the block at the intersecting streets.

MARMION AVENUE—PAVING THE ROADWAY AND SETTING CURB, from Crotona Park North to Southern boulevard. Area of assessment: Both sides of Marmion ave., from Crotona Park North to Southern boulevard, and to the extent of half the block at the intersecting streets.

EAST ONE HUNDRED AND NINETY-THIRD STREET—PAVING THE ROADWAY AND SETTING CURB, from Grand Boulevard and Concourse to Jerome ave.; and MORRIS AVENUE—PAVING THE ROADWAY AND SETTING CURB, from E. 193d st. to Kingsbridge road. Area of assessment: Both sides of E. 193d st., from Grand Boulevard and Concourse to Jerome ave., and both sides of Morris ave., from 193d st. to Kingsbridge road, and to the extent of half the block at the intersecting streets.

—that the same were confirmed by the Board of Assessors on April 16, 1912, and entered April 16, 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 assessments, interest will be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of 177th st. and 3d ave., Borough of The Bronx, between the hours of 9 a. m. and 5 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before June 15, 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.

WILLIAM A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's Office, April 16, 1912. a19,30

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessment for OPENING AND ACQUIRING TITLE to the following named avenue in the BOROUGH OF BROOKLYN:

TWENTY-NINTH AND THIRTIETH WARDS, SECTIONS 16 AND 17.

FOURTEENTH AVENUE—OPENING, from Church ave. to 65th st., excepting that portion of said street occupied by the tracks of the Long Island Railroad and the Sea Beach Railroad, between 61st and 62d sts. Confirmed December 30, 1911; entered April 13, 1912. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the northeasterly side of 65th st., where the same is intersected by the centre line of the block between 14th ave. and 13th ave.; running thence northeasterly and parallel with 14th ave. to the northeasterly side of 36th st.; running thence northwesterly and along the northeasterly side of 36th st. to its intersection with the southerly side of Louisa st.; running thence easterly and along the southery side of Louisa st. to the westerly side of West st.; running thence southerly and along the westerly side of West st. to the northeasterly side of 35th st.; running thence northwesterly along the northeasterly side of 35th st. to the prolongation of the line which forms the centre line of the blocks between 15th ave. and 14th ave.; running thence southwesterly along the centre line of the blocks between 15th ave. and 14th ave. to the northeasterly side of 65th st.; running thence northwesterly along the northeasterly side of 65th st. to the point or place of beginning.

The above-entitled assesment 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 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 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 June 12, 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, April 13, 1912. a17,27

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 Assessment for OPENING AND ACQUIRING TITLE to the following-named avenue in the BOROUGH OF QUEENS:

FIRST WARD.

VAN ALST AVENUE—OPENING, from Hoyt ave. to Winthrop ave. Confirmed February 10, 1912; entered April 13, 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 a point on the northerly side of Hoyt ave. midway between the easterly side of Hallett st. and the westerly side of Howland st.; thence running in a northerly direction and along the centre line of the block between Hallett st. and Howland st. to the southerly side of Winthrop ave.; thence running westerly and along said southerly side of Winthrop ave. to a point on the said southerly side of Winthrop ave. distant 100 feet westerly from the westerly side of Barclay st.; thence running in a southerly direction and along a line parallel to the said westerly side of Barclay st. and 100 feet distant therefrom to the northerly side of Hoyt ave., and thence easterly along the northerly side of Hoyt ave. to the point or place of beginning.

The above-entitled assesment 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 assessments, interest will be collected thereon, as provided in section 1016 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 assesments, 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, 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. until 12 m., and all payments made thereon on or before June 12, 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, April 13, 1912. a17,27

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:

TWENTY-SECOND WARD, SECTION 4.

HOWARD PLACE—SEWER, between Windsor place and Prospect ave. Area of assessment affects Block No. 1114.

THIRTIETH WARD, SECTIONS 17 AND 19.

SEWER in SIXTY-SEVENTH STREET, between Fort Hamilton ave. and 14th ave., with an OUTLET SEWER in THIRTEENTH AVENUE, between 67th and 73d sts., also SEWER in SIXTY-FIFTH STREET, between 12th and 13th aves.; and OUTLET SEWER in THIRTEENTH AVENUE, between 65th and 67th sts.; also SEWER in SIXTY-EIGHTH STREET, between 12th and 13th aves.; also SEWER in THIRTEENTH AVENUE, between 63d and 65th sts. Area of assessment affects Blocks Nos. 5739, 5740, 5746, 5747, 5753, 5754, 5756 to 5761 inclusive, 5763 to 5768 inclusive, 5773, 5774 and 5775, 6154, 6155 and 6156, 6165, 6166, and 6157, 6176, 6177 and 6178, 6187, 6188 and 6189.

THIRTIETH AND THIRTY-SECOND WARDS, SECTIONS 20 AND 23.

SEWER in AVENUE J, between Coney Island ave. and Ocean parkway, with OUTLET SEWERS in EAST EIGHTEENTH STREET, from Avenue J to Avenue K; in OCEAN AVENUE, from Avenue J to Avenue K (west side); in AVENUE K, from E. 18th st. to Nostrand ave.; in NOSTRAND AVENUE, from Avenue K to Avenue M; in AVENUE M, from Nostrand to Flatlands ave.; and in FLATLANDS AVENUE, from Avenue M to Flatbush ave.; also SEWERS in both sides of OCEAN AVENUE, between Avenues K and L, with OUTLET SEWERS in AVENUE L, between Ocean ave. and E. 21st st.; in EAST TWENTY-FIRST STREET (Kenmore place), from Avenue L to Avenue M, and in AVENUE M, from E. 21st st. to Nostrand ave. Area of assessment affects Blocks Nos. 6494 to 6498, 6509 to 6513, 6519 to 6523, 6527 to 6536, 6542 to 6546, 6569 to 6573, 6588 to 6592, 6616, 6617, 6686 to 6688, 6691, 6695 to 6699, 6704 to 6772, 7584, 7602 to 7612, 7620 to 7632, 7638 to 7690, 7692 to 7700, 7815 to 7818, 7858 to 7861.

—that the same were confirmed by the Board of revision of Assessments on April 12, 1912, and entered April 12, 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 assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics Bank Building, Court and Montague 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 June 11, 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.

WILLIAM A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's office, April 12, 1912. a17,27

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF THE BRONX:

TWENTY-FOURTH WARD, SECTION 11.

BELMONT AVENUE — REGULATING, GRADING, SETTING CURBSTONES, FLAGGING SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND PLACING FENCES, from E. 175th st. to 177th st. Area of assessment: Both sides of Belmont ave., from E. 175th st. to 177th st., and to the extent of half the block at the intersecting streets,

—that the same was confirmed by the Board of Revision of Assessments on April 12, 1912, and entered April 12, 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 assessments, interest will be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, 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 June 11, 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.

WILLIAM A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroler's Office, April 12, 1912. a17,27

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:

TWELFTH WARD, SECTION 7.

ONE HUNDRED AND FORTY-THIRD STREET—REGULATING, GRADING, CURBING AND FLAGGING, from a point 331 feet west of Broadway to Riverside drive. Area of assessment: Both sides of 143d st., from Broadway to Riverside drive, and to the extent of half the block at the intersecting streets.

—that the same was confirmed by the Board of Revision of Assessments on April 12, 1912, and entered April 12, 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 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, 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 June 11, 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.

WILLIAM A. PRENDERGAST, Comptroller, City of New York, Department of Finance, Comptroller's office, April 12, 1912. a17,27

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 AND THIRTIETH WARD, SECTION 17.

EIGHTH AVENUE—REGULATING, GRADING, CURBING AND FLAGGING, from 50th to 61st sts. Area of assessment: Both sides of 8th ave., from 50th to 61st sts., and to the extent of half the block at intersecting streets.

TWENTY-FOURTH WARD, SECTION 5.

ALBANY AVENUE—FLAGGING on west side, between Eastern parkway and Union st. and both sides between Union st. and East New York ave. Area of assessment: West side of Albany ave., and both sides of Albany ave., from Eastern parkway to East New York ave.

TWENTY-SIXTH AND TWENTY-NINTH WARDS, SECTION 5.

RALPH AVENUE—CURBING AND FLAGGING, on east side, between Lincoln place and Eastern parkway. Area of assessment: East side of Ralph ave., from Lincoln place to Eastern parkway.

TWENTY-NINTH WARD, SECTION 16.

SEWER IN EAST THIRD STREET, between Beverley road and Avenue C, and between Avenues C and D and in AVENUE C, between E. 3d and E. 4th sts. Area of assessment affects Block Nos. 5354, 5355, 5371 and 5372.

THIRTIETH WARD, SECTION 17.

THIRTEENTH AVENUE—REGULATING, GRADING, CURBING AND FLAGGING between 57th and 60th sts. Area of assessment: Both sides of 13th ave., from 57th to 60th sts.

THIRTEENTH AVENUE—SEWER, between 58th and 59th sts. Area of assessment: Affects Blocks Nos. 5704 and 5705.

FORTY-THIRD STREET—PAVING, between 13th and 14th aves. Area of assessment: Both sides of 43d st., from 13th to 14th aves., and to the extent of half the block at the intersecting avenues.

THIRTIETH WARD, SECTION 18.

EIGHTY-FIRST STREET—REGULATING, GRADING, CURBING AND FLAGGING, between 6th and Fort Hamilton aves. Area of assessment: Both sides of 81st st., from 6th ave. to Fort Hamilton ave., and to the extent of half the block at the intersecting aves.

NINETY-FIRST STREET—REGULATING, GRADING, CURBING AND FLAGGING, between 1st ave. and the Shore road. Area of assessment: Both sides of 91st st., from 1st ave. to the Shore road, and to the extent of half the block at the intersecting streets.

THIRTIETH WARD, SECTION 19.

SEVENTY-THIRD STREET — REGULATING, GRADING, CURBING AND FLAGGING, between 12th and 13th aves. Area of assessment: Both sides of 73d st., from 12th to 13th aves.

SEVENTY-NINTH STREET — GRADING, CURBING, FLAGGING AND PAVING, between 19th and 20th aves. Area of assessment: Both sides of 79th st., from 19th to 20th aves., and to extent of half the block at intersecting aves.

TWENTIETH AVENUE—PAVING, between 86th st. and Bath ave. Area of assessment: Both sides of 20th ave., from 86th st. to Bath ave., and to the extent of half the block at the intersecting streets.

THIRTY-FIRST WARD, SECTION 20.

AVENUE N—CURBING at northwest corner of Ocean ave. and E. 19th st. Area of assessment affects Blocks 6747 and 6748.

—that the same were confirmed by the Board of Assessors on April 9, 1912, and entered April 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 assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before June 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 assessments became liens to the date of payment.

WILLIAM A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, April 9, 1912. a13,24

DEPARTMENT OF FINANCE, BUREAU FOR THE COLLECTION OF TAXES, No. 57 CHAMBERS ST., BOROUGH OF MANHATTAN, NEW YORK, April 1, 1912.

NOTICE TO TAXPAYERS.

NOTICE IS HEREBY GIVEN THAT THE assessment rolls of real estate and personal property in the City of New York for the year 1912 have been delivered to the undersigned and that all taxes on said assessment rolls are due and payable as follows:

All taxes on personal property and one-half of all taxes on real estate are due and payable on

WEDNESDAY, MAY 1, 1912,

and the remaining and final one-half of taxes on real estate shall be due and payable on the FIRST OF NOVEMBER, 1912. *All taxes become liens on the real estate affected thereby on the respective days when they become due and payable as hereinbefore provided and shall remain such liens until paid.*

The second half of the tax on real estate which is due as hereinbefore provided on the first day of November following the payment of the first half, may be paid on the first day of May or at any time thereafter providing the first half shall have been paid or shall be paid at the same time and on such payments of the second half as may be made in such manner

prior to November first a discount shall be allowed from the date of payment to November first at the rate of *four per centum* per annum.

NO DISCOUNT IS ALLOWED ON PERSONAL TAX BILLS.

Penalty on unpaid taxes on real estate begins June 1 and December 1; on unpaid personal taxes June 1.

Taxes are payable at the office of the Receiver of Taxes in the Borough where the property is located, as follows:

Borough of Manhattan, 57 Chambers st.

Borough of The Bronx, Municipal Building, corner 3d and Tremont aves.

Borough of Brooklyn, Municipal Building.

Borough of Queens, Court Square, Long Island City.

Borough of Richmond, Borough Hall, St. George.

FRED. H. E. EBSTEIN, Receiver of Taxes.

a1,30

Notices of Sale.

NOTICE OF CONTINUATION OF QUEENS TAX SALE.

THE SALE OF THE LIENS FOR UNPAID taxes, assessments and water rents for the Borough of Queens, Fifth Ward, as to liens remaining unsold at the termination of sales of November 21, December 12, 1911, January 16, February 20, March 19, and April 23, 1912, has been continued to

TUESDAY, MAY 21, 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.

DANIEL MOYNAHAN, Collector of Assessments and Arrears.

Dated April 23, 1912. a24,m21

NOTICE OF CONTINUATION OF THE BRONX TAX SALE.

THE SALE OF THE LIENS FOR UNPAID taxes, assessments and water rents for the Borough of The Bronx, as to liens remaining unsold at the termination of sales of February 6, 20, March 6, April 10; May 1, 15, 29, June 19, July 10, September 11, November 13, 27, December 11, 1911, January 15, 1912, February 19, March 18, April 15 and April 18, 1912, has been continued to

THURSDAY, MAY 2, 1912,

at 10 o'clock a. m., pursuant to section 1028 of the Greater New York Charter, and will be continued at that time in the Coroner's Court Room, Bronx Building, 531 Tremont ave., in the Borough of The Bronx, in The City of New York.

DANIEL MOYNAHAN, Collector of Assessments and Arrears.

Dated May 2, 1912. a19,m2

Corporation Sales.

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 Brooklyn.

Being the building occupied by Engine Company No. 110 at 160 Carlton ave., in the Borough of Brooklyn, which is 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 March 13, 1912, the sale by sealed bids of the above described building and appurtenances thereto will be held by direction of the Comptroller on

FRIDAY, MAY 3, 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. 110, at 160 Carlton ave., Brooklyn. 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.

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 3d day of May, 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 May 3, 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, April 15, 1912. a17,m3

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 Queens,

Being the building occupied by Hook and Ladder Company No. 75 on Spruce street, 125 feet north of Atlantic avenue, Richmond Hill, in the Borough of Queens, which is 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 March 13, 1912, the sale by sealed bids of the above described building and appurtenances thereto will be held by direction of the Comptroller on

WEDNESDAY, MAY 1, 1912,

at 11 a. m., in lots and parcels and in manner and form as follows:

Parcel No. 1. Building now occupied by Hook and Ladder Company No. 75 on Spruce street, 125 feet north of Atlantic avenue, Richmond Hill. 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.

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 1st day of May, 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 May 1, 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, April 11, 1912. a15,m1

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE BY SEALED BIDS.

AT THE REQUEST OF THE PRESIDENT of the Borough of Brooklyn, public notice is hereby given that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale by sealed bids certain encroachments standing upon property owned by The City of New York, acquired by it for street opening purposes in the

Borough of Brooklyn.

Being all the buildings, parts of buildings, etc., lying within the lines of East 28th street, between Tilden avenue and Beverly road, and East 29th street, between Tilden avenue and Beverly road, in the Borough of Brooklyn, all of which are more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room K, No. 280 Broadway, Borough of Manhattan.

Pursuant to a resolution of the Commissioners of the Sinking Fund adopted at a meeting held April 10, 1912, the sale by sealed bids, at the upset or minimum prices named in the description of each parcel of the above buildings and appurtenances thereto, will be held by direction of the Comptroller on

TUESDAY, APRIL 30, 1912,

at 11 a. m., in lots and parcels and in manner and form and at upset prices as follows:

Parcel No. 1. Two two-story frame, brick basement houses with three sheds and outhouses in rear of same, at East 29th street and Tilden avenue. Upset price, $50.

Parcel No. 2. Part of one-story and attic frame house. Cut 9.76 feet on north side by 8.92 on south side. Part glass and frame hothouses. Cut 41.2 feet on the north side by 39.29 feet on south side. Part of shed. Cut 3.6 feet on north end by 2.55 feet on south end. Located on East 28th street, near Beverly road, Upset price, $30.

Sealed bids (blank forms of which may be obtained upon application) will be received by the Comptroller at the office of the Collector of City Revenue, Room 141, No. 280 Broadway, Borough of Manhattan, until 11 a. m. on the 30th day of April, 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 April 30, 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, April 11, 1912. a13,30

Sale of Corporate Stock.

PROPOSALS FOR $65,000,000 OF FOUR AND ONE-QUARTER PER CENT. CORPORATE STOCK OF THE CITY OF NEW YORK.

PRINCIPAL AND INTEREST PAYABLE IN GOLD.

Exempt from All Taxation, Except for State Purposes.

EXECUTORS, ADMINISTRATORS, GUARDIANS AND OTHERS HOLDING TRUST FUNDS ARE AUTHORIZED BY LAW TO INVEST IN SAID STOCK.

SEALED PROPOSALS WILL BE RECEIVED BY THE COMPTROLLER OF THE CITY OF New York, at his office, No. 280 Broadway, Borough of Manhattan, in the City of New York, until

TUESDAY, THE SEVENTH DAY OF MAY, 1912,

at 2 o'clock p. m., when they will be publicly opened in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, as provided by law, for the whole or a part of the following described *interchangeable registered or coupon corporate stock of The City of New York*, bearing interest at the rate of *four and one-quarter per cent.* per annum, from and including May 7, 1912, to wit:

$25,000,000 00	of Corporate Stock of The City of New York, For Various Municipal Purposes. This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the municipal authorities of The City of New York.	Principal payable March 1, 1962. Interest payable semi-annually, on March 1 and September 1.
$20,000,000 00	of Corporate Stock of The City of New York, To Provide for the Supply of Water. This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the municipal authorities of The City of New York.	Principal payable March 1, 1962. Interest payable semi-annually, on March 1 and September 1.
$20,000,000 00	of Corporate Stock of The City of New York, For the Construction of Rapid Transit Railroads. This stock was duly authorized by the Greater New York Charter, as amended, and other acts of the Legislature of the State of New York, and by the municipal authorities of The City of New York.	Principal payable March 1, 1962. Interest payable semi-annually, on March 1 and September 1.

The said stock is issued in accordance with the provisions of section 10 of article 8 of the Constitution of the State of New York, and is free and exempt from all taxation, except for State purposes.

The principal of and interest on said stock are payable in gold coin of the United States of America, of the present standard of weight and fineness, pursuant to a resolution of the Commissioners of the Sinking Fund, adopted June 9, 1898.

The interest on all of the said stock which may be issued in coupon form will be paid, at the option of the holder thereof, at the office of the Comptroller of The City of New York, or at the office of the City's agent in London, England, at the rate of $4.87 to the pound sterling.

CONDITIONS OF SALE.

As Provided for by the Greater New York Charter.

1. Proposals containing conditions other than those herein set forth will not be received or considered.

2. No proposal for stock shall be accepted for less than the par value of the same.

3. Every bidder, as a condition precedent to the reception or consideration of his proposal, shall deposit with the Comptroller in money, or by a certified check drawn to the order of said Comptroller upon a trust company or a State bank incorporated and doing business under the laws of the State of New York, or upon a National bank, TWO PER CENT. of the par value of the stock bid for in said proposal.

No proposal will be received or considered which is not accompanied by such deposit.

All such deposits shall be returned by the Comptroller to the persons making the same within three days after the decision has been rendered as to who is or are the highest bidder or bidders, except the deposit made by the highest bidder or bidders.

4. If said highest bidder or bidders shall refuse or neglect, within five days after service of written notice of the award to him or them, to pay to the City Chamberlain the amount of the stock awarded to him or them at its par value, together with the premium thereon, less the amount deposited by him or them, the amount or amounts of deposit thus made shall be forfeited to and retained by said City as liquidated damages for such neglect or refusal, and shall thereafter be paid into the Sinking Fund of the City of New York for the Redemption of the City Debt.

5. Upon payment into the City Treasury by the persons whose bids are accepted of the amounts due for the stock awarded to them respectively, including accrued interest from the date of sale, certificates thereof shall be issued to them in such denominations provided for by the Charter as they may desire.

6. It is required by the Charter of the City that in making proposals for bonds or stock, "every bidder may be required to accept a portion of the whole amount thereof bid for by him at the same rate or proportional price as may be specified in his bid; and any bid which conflicts with this condition shall be rejected, provided, however, that any bidder offering to purchase all or any part of the bonds offered for sale at a price at par or higher may also offer to purchase all or none of said bonds at a different price, and if the Comptroller deems it to be in the interests of the City so to do, he may award the bonds to the bidder offering the highest price for all or none of said bonds; provided, however, that if the Comptroller deems it to be in the interests of the City so to do, he may reject all bids." Under this provision, the condition that the bidder will accept only the whole amount of stock bid for by him, and *not* any part thereof, cannot be inserted in any bids, except those for "all or none" offered by bidders who have also bid for "all or any part" of the stock offered for sale.

7. *Stock issued in coupon form can be converted into registered stock, and stock issued in registered form can be converted into coupon stock in denominations of* $1,000.

8. The proposals, together with the security deposits, should be inclosed in a sealed envelope, indorsed "Proposals for Bonds of The City of New York," and said envelope inclosed in another sealed envelope, addressed to the Comptroller of The City of New York. (No special form of proposal is required, therefore no blanks are furnished.)

WILLIAM A. PRENDERGAST, Comptroller.

The City of New York, Department of Finance, Comptroller's Office, April 20, 1912.

a22,m7

BOARD OF ESTIMATE AND APPORTIONMENT.

Franchise Matters.

PUBLIC NOTICE IS HEREBY GIVEN THAT at the meeting of the Board of Estimate and Apportionment held this day, the following resolutions were adopted:

Whereas, The Dry Dock, East Broadway and Battery Railroad Company has under date of December 12, 1911, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate a single track street surface railway as an extension to its existing system, upon and along Canal street and Church street, from the easterly side of Broadway to Lispenard street, Borough of Manhattan; and

Whereas, Section 172 of the Railroad Law and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on January 4, 1912, fixing the date for a public hearing thereon as February 1, 1912, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the "New York Press" and the "Sun," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing, and the public hearing was duly held on such date; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for, and proposed to be granted to the Dry Dock, East Broadway and Battery Railroad Company, and the adequacy of the compensation to be paid therefor; now, therefore, it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the Dry Dock, East Broadway and Battery Railroad Company, containing the form of proposed contract for the grant of such franchise or right, be hereby introduced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Dry Dock, East Broadway and Battery Railroad 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 Dry Dock, East Broadway and Battery Railroad Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a single track extension to its present street surface railway, with the necessary wires and equipment, for the purpose of conveying passengers only in the Borough of Manhattan, in The City of New York, upon the following route, to wit:

Beginning at and connecting with the existing tracks of the Company in Canal street at or near the easterly side of Broadway; thence westerly and crossing Broadway and in, upon and along Canal street to Church street; thence southerly in, upon and along Church street to Lispenard street, and there connecting with the existing tracks of the Company in said street.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said route. Provided, however, that nothing in this contract shall be construed as permitting more than a double track street surface railway in any portion of Canal street.

The said route, with turnouts, switches and crossovers hereby authorized is shown upon a map entitled:

"Map showing proposed extension of the

Dry Dock, East Broadway and Battery Railroad Co., in the Borough of Manhattan, City of New York, to accompany petition dated December 12, 1911, to the Board of Estimate and Apportionment."

—and signed by F. W. Whitridge, Receiver; Edward A. Maher, General Manager; T. F. Mullaney, Chief Engineer—a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description and the other provisions of this contract may be permitted by resolution of the Board.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within three (3) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall within said three (3) months or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed: otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company for the term of twenty-five (25) years from the date upon which this contract is signed by the Mayor, with the privilege of renewal of said contract for the further period of 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 the original term of this 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 said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of one hundred dollars ($100) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than one hundred and twenty-five dollars ($125), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of one hundred and twenty-five dollars ($125).

During the second term of five (5) years an annual sum which shall in no case be less than two hundred and twenty-five dollars ($225) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of two hundred and twenty-five dollars ($225).

During the third term of five (5) years an annual sum which shall in no case be less than two hundred and forty dollars ($240) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of two hundred and forty dollars ($240).

During the fourth term of five (5) years an annual sum which shall in no case be less than two hundred and sixty-five dollars ($265) and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of two hundred and sixty-five dollars ($265).

During the remaining term of five (5) years an annual sum which shall in no case be less than three hundred dollars ($300) and which shall be equal to five (5) per cent, of its gross annual receipt if such percentage shall exceed the sum of three hundred dollars ($300).

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company from all sources within the limits of the City as shall bear the same proportion to such gross receipts as the length of the extension hereby authorized shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City pursuant to the Railroad Law as amended.

Any and all payments to be made by the terms of this contract to the City by the Company, shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within three (3) months from the date upon which the consents of the property owners are filed with the Board or from the date of the order of the Appellate Division of the Supreme Court, made pursuant to section 174 of the Railroad Law, confirming the determination of the Commissioners appointed thereunder, that such railway ought to be constructed, and shall complete the construction and place the same in full operation within three (3) months from the date of filing such consents or the date of such order; otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided further that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board, either in its own name as a party or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board, within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Said railway shall be operated by underground electric power substantially similar to the system of underground electric power now used by the street surface railways in the Borough of Manhattan, or by electric storage battery power; provided, that any other power may be used, except locomotive steam power, horse power or overhead electric power, which may be lawfully used, approved by the Board and consented to by the abutting property owners in accordance with the provisions of law and by the Public Service Commission for the First District of the State of New York.

Twelfth—No wires for the transmission of power shall be permitted unless they be placed in conduits underneath or along the side of the railway. When such conduits are constructed the Company shall provide two (2) conduits not less than three (3) inches in diameter each for the exclusive use of the City. The Company hereby agrees that such conduits shall be used only by the Company and the City, as above.

Thirteenth—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 its road, or on any road, line or branch operated by it or under its control, to any other point thereof, or any connecting branch thereof, within the limits of the City.

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.

Fourteenth—No cars shall be operated upon the railway hereby authorized, other than passenger cars and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Fifteenth—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.

Sixteenth—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.

Seventeenth—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.

Eighteenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Nineteenth—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, or either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twentieth—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. In case of the neglect of the Company to make pavement or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of Manhattan, said President may make the same at the expense of the Company. 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 official, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-first—Any alteration to the sewerage or drainage systems, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-second—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.

Twenty-third—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-fourth—The Company covenants and agrees to abandon and relinquish and does hereby abandon and relinquish to the City all its rights and franchises to construct, maintain and operate a street surface railway upon the route beginning in Canal Street at or near the easterly side of Broadway; thence southwesterly across Broadway to Lispenard street; thence westerly in, upon and along Lispenard street to a point at or near the westerly line of Church street, and the Company shall, within one year from the date on which this contract is signed by the Mayor, comply with the provisions of section 184 of the Railroad Law, in regard to the abandonment of said route, so abandoned and relinquished, and shall remove therefrom any and all existing tracks of the Company at such time after obtaining its certificate of abandonment as may be required by the Board of Estimate and Apportionment or by the President of the Borough of Manhattan, and shall thereupon restore the street pavement in the manner prescribed by the President of the Borough of Manhattan.

If the Company shall fail to secure the approval of the Public Service Commission or shall fail for any other reason to comply with the provisions of this subdivision within the time stipulated, this contract shall be void and of no effect, and the grant made herein shall thereupon cease and determine. Provided, however, the Board may extend said period for a period or periods not exceeding in the aggregate six (6) months.

A certified copy of the certificate of abandonment shall be filed with the Board of Estimate and Apportionment within ten (10) days from the date on which the same is obtained by the Company.

Twenty-fifth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-sixth—The Company shall, at all times, keep accurate books of account of the gross receipts 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 receipts, 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.

Twenty-seventh—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board, acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-eighth—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.

Twenty-ninth—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.

Thirtieth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of one thousand dollars ($1,000), 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 and compliance with all orders of the Board acting

under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions or compliance with such orders or either or any of them the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same with interest from the said fund after ten (10) days' notice to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder relating to the headway, heating and lighting of cars, fenders and wheelguards, 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 and supplied with fenders or wheelguards, in case of a violation of the provisions relating to those matters, all of which sums may be deducted from the 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, pay to the City a sum sufficient to restore said security fund to the original amount of one thousand dollars ($1,000), and in defaut thereof this contract shall be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-first—The words "notice" or "direction" wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-second—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 or over which the public has an easement" encountered in the route hereinabove described, and upon or in which authority is hereby given the Company to construct a railway.

Thirty-third—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Sec. 4. This grant is also upon the further and express condition that the provisions of article 5 and the other provisions of the Railroad Law pertinent hereto shall be strictly complied with by the Company.

Sec. 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms and conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed: and the party of the second part, by its officers thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto fixed, the day and year first above written.

THE CITY OF NEW YORK,
[CORPORATE SEAL.]
By .....Mayor.
Attest:.....City Clerk.
DRY DOCK, EAST BROADWAY AND BATTERY RAILROAD COMPANY,
By .....Receiver.
By .....President.
[SEAL.]
Attest:.....Secretary.
(Here add acknowledgments.)

Resolved, That the result of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates, fares and charges, are as hereinbefore specified, and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the Dry Dock, East Broadway & Battery Railroad Company and the said form of a proposed contract for the grant of such franchise or right containing said result of such inquiry after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, May 9, 1912, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, May 9, 1912, in two (2) daily newspapers, to be designated by the Mayor therefor, and published in the City of New York, at the expense of the Dry Dock, East Broadway & Battery Railroad Company, together with the following notice to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the Dry Dock, East Broadway & Battery Railroad Company, and fully set forth and described in the foregoing form of proposed contract, for the grant of such franchise or right and before adopting any resolution authorizing such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, May 9, 1912, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

The "New York Times" and the "New York Press' designated.

JOSEPH HAAG, Secretary.
Dated New York, March 28, 1912. a16,m9

PUBLIC NOTICE IS HEREBY GIVEN THAT at a meeting of the Board of Estimate and Apportionment, held February 15, 1912, the following petition was received:

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

In response to the request of your Honorable Board, your petitioner, The Stock Quotation Telegraph Company, respectfully shows:

That The Stock Quotation Telegraph Company was incorporated under the New York Telegraph Act of 1848 (certified copy of charter was filed with your Board December 10, 1910).

That said company has accepted the provisions of the Act of Congress of July 24, 1866, Title 65, U. S. Revised Statutes, sections 5263 *et seq.*, and began the business described by its charter in 1882, and has continued in business in The City of New York and elsewhere ever since, and is now engaged in the transmission of communications by electricity, both interstate and intrastate, reporting as an interstate carrier to the Interstate Commerce Commission at Washington, D. C.

That without waiving its legal rights and without admitting any legal obligation on its part to require the consent of The City of New York to its use of the streets, your petitioner respectfully asks the consent and approval of your Honorable Board for the continuance of its business, and the continued use and occupation of the streets of the said City for the maintenance and operation of its system of wires and cables connecting its offices with each other and with other offices and subscribers, in the said City of New York.

Wherefore, your petitioner respectfully prays.

THE STOCK QUOTATION TELEGRAPH COMPANY,
By GEO. H. FEARONS, Attorney.

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

George H. Fearons, being duly sworn, says that he is attorney for The Stock Quotation Telegraph Company, the corporation described in the foregoing petition for consent and approval of the use by it of the public streets of The City of New York, as therein set forth, and that he signed the same as such attorney by authority duly given.

GEORGE H. FEARONS.

Sworn to before me this 6th day of February, 1912.

[SEAL.]

CHARLOTTE A. VAN BRUNT, Notary Public, Kings County, No. 4; certificate filed in New York County; my commission expires March 30, 1912.

—and at the meeting of March 28, 1912, the following resolutions were adopted:

Whereas, The foregoing petition from The Stock Quotation Telegraph Company, verified February 6, 1912, was presented to the Board of Estimate and Apportionment at a meeting held February 15, 1912:

Resolved, That, in pursuance of law, this Board sets Thursday, the 25th day of April, 1912, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard; and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least two (2) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

The "New York Herald" and the "New York Press" designated.

JOSEPH HAAG, Secretary.
New York, March 28, 1912. a13,25

PUBLIC NOTICE IS HEREBY GIVEN THAT at a meeting of the Board of Estimate and Apportionment, held February 29, 1912, the following petition was received:

To the Board of Estimate and Apportionment:

The petition of The American District Telegraph Company respectfully shows to your Honorable Board:

That your petitioner is a domestic corporation organized on or about the 5th day of October, 1871, under the provisions of chapter 265 of the Laws of 1848, entitled "An Act to Provide for the Incorporation and Regulation of Telegraph Companies," approved April 12, 1848, and is engaged in carrying on a part of the electrical telegraph business described in its articles of incorporation, a certified copy of which articles of incorporation are on file in the office of Joseph Haag, Esq., Secretary of your Honorable Board, to which reference is hereby made.

That the electrical business carried on by petitioner consists of the operation of automatic call boxes located on the premises of subscribers and connecting them with the central offices of petitioner located in the Borough of Manhattan as follows:

Produce Exchange, 60 Wall street, 16 Broad street, 2 Rector street, 111 Broadway, 91 Wall street, 65 Gold street, 151 Church street, 195 Broadway, Tribune Building, 143 Liberty street, Cotton Exchange, 296 Broadway, 142 West street, 32 Desbrosses street, 323 Greenwich street, 233 Grand street, 407 Broadway, 255 Church street, 444 Broome street, 73 Beach street, 599 Broadway, 449 West 13th street, 178 Christopher street, 164 Avenue C 1 West 4th street, 39 West 14th street, 152 Franklin street, 201 East 14th street, 854 Broadway, 70 8th avenue, 137 East 23d street, 172 5th avenue, 270 West 23d street, 11 West 126th street, 24 State street, 1 Broadway, 11 Broadway, 1 Madison avenue, 26 West 31st street, 125 East 34th street, 1398 Broadway, 1647 Broadway, Grand Central Depot, 821 6th avenue, 8 West 45th street, 853 3d avenue, 990 6th avenue, 1771 Broadway, 1053 3d avenue, 621 Madison avenue, 1363 3d avenue, 263 Columbus avenue, 346 Broadway, 426 Columbus avenue, 693 Columbus avenue, 1616 3d avenue, 2753 Broadway, 129 Columbus avenue, 243 West 116th street, 100 William street, 125th street and Park avenue, 249 West 125th street, 106 Park street, Fulton Market, 523 Grand street, Hudson Terminal, 567 West 145th street, 71 Broadway.

That your petitioner since shortly after its organization has enjoyed the use of the streets of the City of New York in connection with its said business.

Your petitioner asks the consent and approval of your Honorable Board to the occupation of the streets of said city for the business of operating call boxes and the placing of wires therein connecting subscribers' premises with the central offices of your petitioner located as aforesaid.

THE AMERICAN DISTRICT TELEGRAPH COMPANY,
By RUSH TAGGART,
Its Attorney.

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

Rush Taggart being duly sworn says that he is attorney for The American District Telegraph Company, the corporation described in the foregoing petition for consent and approval of the use by it of the public streets as therein set forth, and that he signed the same as such attorney by authority duly given.

RUSH TAGGART.

Sworn to before me this 19th day of February, 1912.

[SEAL.]

CHARLOTTE A. VAN BRUNT, Notary Public, Kings County, etc.

—and at the meeting of March 28, 1912, the following resolutions were adopted:

Whereas, The foregoing petition from the American District Telegraph Company, verified February 19, 1912, was presented to the Board of Estimate and Apportionment at a meeting held February 29, 1912.

Resolved, That in pursuance of law this Board sets Thursday, the 25th day of April, 1912, at 10.30 o'clock in the forenoon and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard; and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least two (2) days in two daily newspapers in the City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

The "Evening Mail" and the "Globe" designated.

JOSEPH HAAG, Secretary.
New York, March 28, 1912. a13,25

PUBLIC NOTICE IS HEREBY GIVEN THAT at a meeting of the Board of Estimate and Apportionment, held March 28, 1912, the following petition was received:

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

Gentlemen—The Coney Island and Brooklyn Railroad Company, a street surface railroad corporation, duly incorporated and doing business under and by virtue of the Laws of the State of New York, hereby makes application for a franchise to construct, operate and maintain a street surface railroad for the transportation of persons and property, together with the necessary connections, switches and turnouts, appurtenances and appliances, to be operated by electricity, conducted and supplied through the overhead single trolley system, along the route in the Borough of Brooklyn, City of New York, described as follows:

Commencing at a point at or near the inintersection of Atlantic avenue with Franklin avenue and extending in a westerly direction along Atlantic avenue in the centre of, or as near the centre of, said avenue as may be to a point at or near the intersection of Fourth avenue with Atlantic avenue with double tracks.

Dated March 11, 1912.

THE CONEY ISLAND AND BROOKLYN RAILROAD COMPANY.
[SEAL] By S. W. HUFF, President.
Attest: JOHN A. THAKE, Assistant Secretary.

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

On the 11th day of March, 1912, before me personally came S. W. Huff, to me known, who being by me duly sworn, did depose and say: That he resides in the Borough of Brooklyn, City of New York; that he is the President of the Coney Island and Brooklyn Railroad Company, the corporation described in and which executed the foregoing instrument; that he knew the seal of said corporation; that the seal affixed to said instrument was 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.

GEORGE P. FORT, Notary Public, Kings County.

—and the following resolutions were thereupon adopted:

Whereas, The foregoing petition from the Coney Island & Brooklyn Railroad Company, dated March 11, 1912, was presented to the Board of Estimate and Apportionment at a meeting held March 28, 1912.

Resolved, That in pursuance of law this Board sets Thursday, the 25th day of April, 1912, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard; and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least fourteen (14) days in two (2) daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

The "Globe" and the "Brooklyn Times" designated. JOSEPH HAAG, Secretary.
New York, March 28, 1912. a13,25

PUBLIC NOTICE IS HEREBY GIVEN THAT at a meeting of the Board of Estimate and Apportionment, held March 28, 1912, the following petition was received:

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

Gentlemen—The Coney Island and Brooklyn Railroad Company, a street surface railroad corporation, duly incorporated and doing business under and by virtue of the Laws of the State of New York, hereby makes application for a franchise to construct, operate and maintain a street surface railroad for the transportation of persons and property, together with the necessary connections, switches and turnouts, appurtenances and appliances, to be operated by electricity conducted and supplied through the overhead single trolley system, along the routes in the Borough of Brooklyn, City of New York, described as follows:

Commencing at a point at or near the intersection of 9th street and 4th avenue, and running thence in a northeasterly direction along 4th avenue to Flatbush avenue and continuing across Flatbush avenue into and along Ashland place to Fulton street with double tracks, and continuing from thence with a single track northerly along Ashland place to DeKalb avenue, and also with a single track from a point at or near the intersection of Ashland place and Fulton street; running in a westerly direction along Fulton street to a point at or near the intersection of Fulton street and Rockwell place, and from thence northerly into and along Rockwell place to DeKalb avenue.

Dated March 11, 1912.

THE CONEY ISLAND AND BROOKLYN RAILROAD COMPANY,
[SEAL.] By S. W. HUFF, President.
Attest: JOHN A. THAKE, Assistant Secretary.

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

On the 11th day of March, 1912, before me personally came S. W. Huff, to me known, who, being by me duly sworn, did depose and say that he resides in the Borough of Brooklyn, City of New York; that he is the President of the Coney Island and Brooklyn Railroad Company, the corporation described in and which executed the foregoing instrument; that he knew the seal of said corporation; that the seal affixed to said instrument was 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.

GEORGE P. FORT, Notary Public, Kings County.

—and the following resolutions were thereupon adopted:

Whereas, The foregoing petition from the Coney Island and Brooklyn Railroad Company, dated March 11, 1912, was presented to the Board of Estimate and Apportionment at a meeting held March 28, 1912.

Resolved, That in pursuance of law this Board sets Thursday, the 25th day of April, 1912, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard; and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least fourteen (14) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

The "Times" and the "New York Press" designated.

JOSEPH HAAG, Secretary.
New York, March 28, 1912. a13,25

PUBLIC NOTICE IS HEREBY GIVEN THAT at the meeting of the Board of Estimate and Apportionment, held this day, the following resolutions were adopted:

Whereas, The City of New York, by an ordinance adopted by the Board of Aldermen July 26, 1904, and approved by the Mayor August 2, 1904, granted to the New York, Westchester and Boston Railway Company the right to construct, maintain and operate a four-track railroad upon certain routes, particularly set forth in section 1 of said ordinance, and which ordinance, including all the terms and conditions thereof, was accepted by said Company by an instrument in writing duly filed with the Comptroller of The City of New York on August 15, 1904; and

Whereas, The Board of Estimate and Apportionment, by resolution adopted July 14, 1905, and approved by the Mayor July 21, 1905, consented to certain modifications or alterations in the aforesaid routes; and

Whereas, Said ordinance was further amended by contracts between the City and the Company dated January 29, 1909, and August 2, 1911, respectively; and

Whereas, The Board of Estimate and Apportionment, by resolution adopted January 18, 1912, and approved by the Mayor January 19, 1912, granted the Company an extension of time of three (3) months from February 2, 1912, in which to complete the construction of its railroad from the northerly line of the City as far south as East 174th street; and

Whereas, The said Company has petitioned the Board of Estimate and Apportionment by a petition dated December 30, 1911, for a modification or amendment of the terms and conditions of the aforesaid ordinance, as amended by the resolution approved July 21, 1905, and by the contracts dated January 29, 1909, and August 2, 1911, as is fully set forth in said petition; and

Whereas, Sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on January 18, 1912, fixing the date for a public hearing thereon as February 29, 1912, at which citizens were entitled to appear and be heard, and publication was had for at least two (2) days in the "New York Press" and "The Globe," newspapers designated by the Mayor, and in the CITY RECORD for ten (10) days immediately prior to the date of hearing, and the public hearing was duly held on such day; and

Whereas, The said Board has made inquiry as to the proposed modification and amendment of said ordinance as heretofore amended; now, therefore, it is

Resolved, That the following form of resolution for the consent or right applied for by the New York, Westchester and Boston Railway Company, containing the form of proposed contract for the grant of such right, be hereby introduced and entered in the minutes of this Board, as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby consents to certain modifications in the terms and conditions of the said ordinance as heretofore amended; such modified terms and conditions being fully set forth and described in the following form of proposed contract for the grant thereof, embodying such terms and conditions as modify or alter said ordinance of the Board of Aldermen as heretofore amended, which said ordinance as heretofore amended otherwise remains unchanged as to all the other terms and conditions expressed therein, 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 New York, Westchester and Boston Railway Company (hereinafter called the Company), party of the second part, witnesseth:

Whereas, The City did by ordinance approved by the Mayor August 2, 1904, grant to the Company the right to cross certain streets and highways and the privilege to construct and operate a four-track railroad upon certain routes particularly set forth in Section 1 of said ordinance, and as shown on certain maps and profiles therein referred to and filed in the office of the County Clerk of the City and County of New York, on the 23d day of June, 1904; and

Whereas, The Board did on July 14, 1905, adopt a resolution which was approved by the Mayor July 21, 1905, consenting to a change in the route of the Company; and

Whereas, The Board did on November 20, 1908, adopt a resolution which was approved by the Mayor November 30, 1908, authorizing the execution and delivery of a contract modifying and altering certain of the terms and conditions of the said ordinance of the Board of Aldermen approved by the Mayor August 2, 1904, as amended by the said resolution of the Board of Estimate and Apportionment approved by the Mayor July 21, 1905, and said contract so authorized was executed by the President and Secretary of the Company on January 29, 1909, and by the Mayor and City Clerk February 8, 1909, and bears the former date; and

Whereas, The Board did on July 6, 1911, adopt a resolution which was approved by the Mayor July 11, 1911, authorizing the execution and delivery of a contract changing the route of the Company and modifying and altering certain

of the terms and conditions of the said ordinance of the Board of Aldermen approved by the Mayor August 2, 1904, as amended by the said resolution of the Board of Estimate and Apportionment approved by the Mayor July 21, 1905, and as further amended by the said contract dated January 29, 1909, and said contract so authorized was executed by the President and Secretary of the Company on July 21, 1911, and by the Mayor and City Clerk on August 2 and August 15, 1911, respectively, and bears date of August 2, 1911; and

Whereas, The Board did on January 18, 1912, adopt a resolution which was approved by the Mayor January 19, 1912, granting the Company an extension of time of three (3) months from February 2, 1912, in which to complete the construction of its railroad from the northerly line of the City as far south as East One Hundred and Seventy-fourth Street; and

Whereas, In and by said ordinance as amended by said resolutions and said contracts, the consent of the City was granted to the Company for the construction, maintenance and operation of the said railroad across certain enumerated streets, avenues or highways, either above or below the grade thereof within said City upon certain conditions therein fully set forth; and

Whereas, The Company has applied to the Board as the local authority of the City by a petition dated December 30, 1911, for the consent of such local authority to a certain modification and amendment in the ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contracts dated January 29, 1909, and August 2, 1911, respectively, to wit:

By extending the time for the completion of a four-track railroad from the northerly line of the City south to East One Hundred and Seventy-fourth street, six (6) months from February 2, 1912, by amending Section 5, Paragraph 1, of said ordinance of August 2, 1904, as amended by said contracts dated January 29, 1909, and August 2, 1911, respectively, by changing the words "the second day of February, 1912," to read "the second day of August, 1912," and

Whereas, After due publication, a public hearing at which citizens were entitled to appear and be heard, was held by the Board upon the modification and amendment contained in the petition on the 29th day of February, 1912; and

Whereas, The Board has made inquiry as to the proposed modification and amendment of said ordinance of 1904, resolution of 1905, and contracts of 1909 and 1911; and

Whereas, On the day of , 1912, the Board, as the local authority of the City, adopted a resolution, giving its consent to the modification in the ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contracts dated January 29, 1909, and August 2, 1911, respectively, and authorized the Mayor to execute and deliver a contract granting such rights in the name and on behalf of the City, which resolution was approved by the Mayor on the day of , 1912.

Now, therefore, in consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree, as follows:

Section 1. The City hereby consents, subject to the conditions and provisions hereinafter set forth, to the change or amendment to the said right or franchise, as expressed in said ordinance adopted by the Board of Aldermen July 26, 1904, and approved by the Mayor August 2, 1904, as amended by said resolution approved by the Mayor July 21, 1905, and by said contracts bearing date of January 29, 1909, and August 2, 1911, respectively, said change or amendment to be as follows:

1. Section 5, paragraph 1, of said ordinance of August 2, 1904, as amended by said contracts dated January 29, 1909, and August 2, 1911, respectively, is hereby amended to read as follows:

"Said Railroad Company shall commence actual construction within one year from the date of the signing of this ordinance by the Mayor and shall complete a four-track railroad upon the main line from the northerly line of the City as far south as East One Hundred and Seventy-fourth Street by the second day of August, 1912, otherwise this grant shall cease and determine."

2. Section 5 of said ordinance of August 2, 1904, as amended by said contract dated August 2, 1911, is hereby further amended so the last paragraph of said section shall read as follows:

"The Board of Estimate and Apportionment shall have power to extend the time provided for in this section for the completion of the railway and for the work to be performed and expenditure to be made as above for a period or periods not exceeding in the aggregate three (3) months, but such extension shall not be made unless the reasons given by the grantee for non-fulfillment are, in the opinion of the Board of Estimate and Apportionment, for causes over which the grantee had no control and was in nowise responsible."

Section 2. This grant is subject to the condition that all the terms and conditions contained in the said ordinance adopted by the Board of Aldermen July 26, 1904, and approved by the Mayor August 2, 1904, as amended by said resolution approved by the Mayor July 21, 1905, and by said contracts bearing date of January 29, 1909, and August 2, 1911, respectively, except as herein modified and amended, shall remain in full force and effect.

Section 3. The Company promises, covenants and agrees on its part and behalf to conform to, and abide by and perform all of the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By....., Mayor.
[CORPORATE SEAL.]
Attest: ....., City Clerk.
NEW YORK, WESTCHESTER AND BOSTON RAILWAY COMPANY,
By ....., President.
[SEAL.]
Attest: ....., Secretary.
(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the proposed franchise, and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, are as specified and fully set forth in the said ordinance approved by the Mayor August 2, 1904, as heretofore amended, as further amended by the foregoing form of proposed contract for the consent to such modifications and alterations.

Resolved, That these preambles and resolutions, including said resolution for the consent of The City of New York to the modifications and alterations as applied for by the New York, Westchester and Boston Railway Company, and said form of proposed contract for the grant of said franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, April 25, 1912, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, April 25, 1912, in two (2) daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the New York, Westchester and Boston Railway Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment before authorizing any contract for the consent of the City to a certain modification and amendment in the terms and conditions of the said ordinance approved by the Mayor August 2, 1904, as heretofore amended, such modification and amendment being fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right and before adopting any resolution authorizing such contract, will, at a meeting of said Board to be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, April 25, 1912, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

The "New York Times" and the "New York Press" designated.

JOSEPH HAAG, Secretary.
Dated New York, March 14, 1912. a2,25

PUBLIC NOTICE IS HEREBY GIVEN THAT at the meeting of the Board of Estimate and Apportionment held this day the public hearing on the form of contract for a change in the main line of the route of the New York, Westchester & Boston Railway Company from that described in contract dated January 29, 1909, between the southerly terminus of the road and the Harlem River and a point between 134th and 135th streets, east of Willow avenue, Borough of The Bronx, was continued until the meeting of said Board to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, April 25, 1912, at 10.30 o'clock a. m.

Dated New York, February 29, 1912.

JOSEPH HAAG, Secretary.
m2,a25

Public Improvement Matters.

REMOVAL OF ENCROACHMENTS ON 5TH AVENUE, BETWEEN THE SOUTHERLY SIDE OF 23D STREET AND THE NORTHERLY SIDE OF 14TH STREET, BOROUGH OF MANHATTAN.

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York will give a public hearing in the old Council Chamber, Room 16, City Hall, Borough of Manhattan, City of New York, on Thursday, May 2, 1912, at 10.30 o'clock a. m., to all persons interested in the following resolutions submitted to the Board on April 18, 1912, by the President of the Borough of Manhattan, viz.:

Resolved, That all ordinances, resolutions, permits or licenses heretofore adopted, issued or granted by The City of New York, or by any board, body, council or officer thereof, or by any department, division, bureau or officer thereof, permitting, licensing, or allowing any stoop, steps, courtyard, area, platform, porch, fence, railing, showcase, bay window, ornamental entrance, storm door or any other projection or encroachment of whatsoever nature or description, either temporary or permanent, on 5th avenue, in the Borough of Manhattan, between the southerly side of 23d street and the northerly side of 14th street, between levels ten (10) feet above the curb grade and a sufficient depth below said curb to provide proper support for the street and walk surfaces, and for necessary and proper sub-surface structures, be and they are hereby in all respects repealed, cancelled and revoked; and be it further

Resolved, That the President of the Borough of Manhattan be and he is hereby authorized to remove, or cause to be removed, all said encroachments or encumbrances in accordance with the foregoing resolutions.

Dated April 20, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Telephone 2280 Worth. a20,m1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on April 18, 1912, the Board continued until May 2, 1912, the hearing on the proposed area of assessment in the matter of acquiring title to Junction avenue, from 37th street to Queens boulevard, Borough of Queens.

The hearing will be held in the old Council Chamber, Room 16, City Hall, Borough of Manhattan, City of New York, on Thursday, May 2, 1912, at 10.30 o'clock a. m.

The following is the proposed area of assessment in the proceeding:

Beginning at a point on a line midway between 40th street and 41st street distant 100 feet northerly from the northerly line of Patterson avenue, and running thence southwardly along the said line midway between 40th street and 41st street to a point distant 100 feet northerly from the northerly line of Jackson avenue; thence eastwardly and parallel with Jackson avenue to the intersection with a line midway between 41st street and 42d street; thence southwardly along the said line midway between 41st street and 42d street to a point distant 100 feet northerly from the northerly line of Hayes avenue; thence eastwardly and parallel with Hayes avenue to the intersection with a line midway between 42d street and 43d street; thence southwardly and always midway between 42d street and 43d street to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Roosevelt avenue, the said distance being measured at right angles to Roosevelt avenue; thence westwardly along the said line parallel with Roosevelt avenue to the intersection with a line midway between 41st street and 42d street; thence southwardly along the said line midway between 41st street and 42d street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Cushman place and Sothern avenue; thence southwardly along the said line midway between Cushman place and Sothern avenue and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Gerry avenue; thence westwardly and parallel with Gerry avenue to the intersection with a line midway between Sothern avenue and Kingston terrace; thence southwardly along the said line midway between Sothern avenue and Kingston terrace and along the prolongation of the said line to the intersection with a line midway between Martense street and Norfolk street; thence westwardly along the said line midway between Martense street and Norfolk street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Sothern avenue and Barrymore street, as these streets are laid out between Orontes street and Palmer street; thence southwardly along the said bisecting line to the intersection with the prolongation of a line midway between Sothern avenue and Barrymore street, as these streets are laid out between Tredwell street and Urquhart street; thence southwardly along the said line midway between Sothern avenue and Barrymore street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Modjeska street and Lotta place; thence southwestwardly along the said line midway between Modjeska street and Lotta place and along the prolongation of the said line to a point distant 100 feet southwesterly from the southwesterly line of Booth street; thence northwestwardly and parallel with Booth street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Hanover avenue and Toledo street as these streets are laid out between Martense street and Norfolk street; thence northwardly along the said bisecting line to the intersection with the prolongation of a line midway between Hanover avenue and Toledo street as these streets are laid out between Ivy street and Jennings street; thence northwardly along the said line midway between Hanover avenue and Toledo street and along the prolongation of the said line to the intersection with a line midway between Gerry avenue and Maurice avenue; thence eastwardly along the said line midway between Gerry avenue and Maurice avenue to the intersection with the prolongation of a line midway between Hanover avenue and Gay street; thence northwardly along the said line midway between Hanover avenue and Gay street and along the prolongations of the said line to the intersection with the southerly right-of-way line of the Flushing and North Side Division of the Long Island Railroad; thence northwardly in a straight line to a point on the northerly right-of-way line of the Flushing and North Side Division of the Long Island Railroad where it is intersected by the prolongation of a line midway between Van Nest street and Van Dine street; thence northwardly along the said line midway between Van Nest street and Van Dine 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 Roosevelt avenue, the said distance being measured at right angles to Roosevelt avenue; thence westwardly along the said line parallel with Roosevelt avenue to the intersection with the prolongation of a line midway between Leverich avenue and Hone street; thence northwardly along the said line midway between Leverich avenue and Hone street and along the prolongation of the said line to a point distant 100 feet southerly from the southerly line of Polk avenue, the said distance being measured at right angles to Polk avenue; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Polk avenue to the intersection with a line midway between 36th street and Leverich avenue; thence northwardly along the said line midway between 36th street and Leverich avenue to a point distant 100 feet southerly from the southerly line of Fillmore avenue; thence westwardly and parallel with Fillmore avenue to the intersection with a line midway between 35th street and 36th street; thence northwardly along the said line midway between 35th street and 36th street to a point distant 100 feet southerly from the southerly line of Hayes avenue; thence westwardly and parallel with Hayes avenue to the intersection with a line midway between 34th street and 35th street; thence northwardly along the said line midway between 34th street and 35th street to a point distant 100 feet southerly from the southerly line of Jackson avenue; thence westwardly and parallel with Jackson avenue to the intersection with a line midway between 33d street and 34th street; thence northwardly along the said line midway between 33d street and 34th street to a point distant 100 feet northerly from the northerly line of Patterson avenue; thence eastwardly and parallel with Patterson avenue to the point or place of beginning.

Dated April 20, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone 2280 Worth. a20,m1

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on April 18, 1912, the Board continued until May 2, 1912, the hearing in the matter of changing the map or plan of The City of New York by changing the lines and grades of Amboy road, from Great Kills road to the line of the Ocean View Cemetery, 4th Ward, in the Borough of Richmond, as shown upon a map or plan bearing the signature of the President of the Borough and dated February 2, 1912.

The hearing will be held in the old Council Chamber, Room 16, City Hall, Borough of Manhattan, City of New York, on Thursday, May 2, 1912, at 10.30 o'clock a. m.

Dated April 20, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone 2280 Worth. a20,m1

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to lay out a public park in Peck slip, between Front street and South Street, Borough of Manhattan, and that a meeting of said Board will will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, by laying out a public park in Peck slip, between Front street and South street, in the Borough of Manhattan, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated September 27, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to change the grades of the street system bounded by Snyder avenue, Brooklyn avenue, Beverly road and East 32d street, in the Borough of Brooklyn, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated November 21, 1911.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to change the grades of the street system bounded approximately by Varick avenue, Harrison place, Stewart avenue, Ingraham street, Gardner avenue, Johnson avenue, Cypress avenue, Hart street, Irving avenue and Flushing avenue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, by changing the grades of the street system bounded approximately by Varick avenue, Harrison place, Stewart avenue, Ingraham street, Gardner avenue, Johnson avenue, Cypress avenue, Hart street, Irving avenue and Flushing avenue, in the Borough of Brooklyn, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated February 2, 1912:

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to change the grade of the platform at the junction of Popham avenue and Palisade place, the grade of Palisade place between Popham avenue and the steps about 330 feet to the north, and the grade of Popham avenue, between Palisade place and Montgomery avenue, Borough of The Bronx, and that a meeting of said Board will be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of the platform at the junction of Popham avenue and Palisade place, the grade of Palisade place, between Popham avenue and the steps about 330 feeet to the north and the grade of Popham avenue, between Palisade place and Montgomery avenue, in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Acting President of the Borough and dated July 31, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to change the grade of East 135th street, between Willow avenue and the New York, New Haven & Hartford Railroad, Borough of The Bronx, and that a meeting of said Board will be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of East 135th street, between Willow avenue and the New York, New Haven & Hartford Railroad, in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated May 12, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912,

at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York so as to change the lines of the street system bounded by Westchester avenue, Noble avenue, East 174th street, St. Lawrence avenue, East 177th street and Beach avenue, Borough of The Bronx, and that a meeting of said Board will be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines of the street system bounded by Westchester avenue, Noble avenue, East 174th street, St. Lawrence avenue, East 177th street and Beach avenue, in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough and dated September 22, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grades of Flushing avenue, between 2d avenue and 5th avenue; of Hoyt avenue, between Flushing avenue and a point 100 feet easterly from 2d avenue; of 4th avenue, between Vandeventer avenue and Woolsey avenue; of 6th avenue, between a point 300 feet westerly from Vandeventer avenue and a point 275 feet easterly from Vandeventer avenue, and of Vandeventer avenue, between 5th avenue and 7th avenue, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grades of Flushing avenue, between 2d avenue and 5th avenue; of Hoyt avenue, between Flushing avenue and a point 100 feet easterly from 2d avenue; of 4th avenue, between Vandeventer avenue and Woolsey avenue; of 6th avenue, between a point 300 feet westerly from Vandeventer avenue and a point 275 feet easterly from Vandeventer avenue, and of Vandeventer avenue, between 5th avenue and 7th avenue, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated October 20, 1910.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excetped, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grades of Orchard street, between Jackson avenue and the Long Island Railroad, in the First Ward, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in purusance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the grades of Orchard street, between Jackson avenue and the Long Island Railroad, in the First Ward of the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment and dated April 11, 1911.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excetped, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines of the street system bounded by Irving avenue, Schaeffer street, Wyckoff avenue, Summerfield street, Cypress avenue and Cooper street, in the Second Ward, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines of the street system bounded by Irving avenue, Schaeffer street, Wyckoff avenue, Summerfield street, Cypress avenue and Cooper street, Second Ward, Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated February 23, 1912.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excetped, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, so as to lay out the lines and grades of Section 63 of the final maps, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, by laying out the lines and grades of section 63 of the final maps, Borough of Queens, City of New York, being largely a part of the old village of Flushing, bounded approximately by Haight street, Sanford avenue, Lawrence street, Applegate street, Frame place, Bradford avenue, Jagger avenue, Main street, Burcker street, Union street, Lingard street, Bowne avenue, Marston avenue, Parsons avenue, Bayreuth street, Percy street, Delaware street, Parsons avenue, Erie place, Burling avenue, Franconia avenue, Underhill avenue, Holly street, Isaac street, Peck avenue, Saull street, Crommelin street, Blossom street, Lawrence street and Muhlenberg avenue, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated October 5, 1911.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, so as to lay out the lines and grades of Quebec street (Lincoln avenue), from Richmond road to the Staten Island Railway in the Fourth Ward, Borough of Richmond, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, by laying out the lines and grades of Quebec street (Lincoln avenue), from Richmond road to the Staten Island Railway, in the Fourth Ward of the Borough of Richmond, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated October 16, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment, held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of Quebec street (Lincoln avenue), from Richmond road to the Staten Island Railway in the Fourth Ward, Borough of Richmond, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on March 21, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of the City of New York, by laying out the lines and grades of Quebec street (Lincoln avenue), from Richmond road to the Staten Island Railway, in the Fourth Ward of the Borough of Richmond, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated October 16, 1911:

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment, held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of Brooklyn avenue, from President street to Winthrop street, in the Borough of Brooklyn, 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 section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on a line midway between Brooklyn avenue and Kingston avenue as these streets are laid out north of Lefferts avenue where it is intersected by a line midway between President street and Union street, and running thence southwardly along a line always midway between Brooklyn avenue and Kingston avenue and the prolongations thereof to the intersection with a line midway between Winthrop street and Clarkson avenue; thence westwardly along the said line midway between Winthrop street and Clarkson avenue to the intersection with the prolongation of a line midway between New York avenue and Brooklyn avenue as these streets are laid out between Hawthorne street and Winthrop street; thence northwardly along the said line midway between New York avenue and Brooklyn avenue and along the prolongation of the said line to the intersection with the southerly line of Lefferts avenue; thence northwardly in a straight line to a point on the northerly line of Malbone street where it is intersected by a line midway between New York avenue and Brooklyn avenue as these streets are laid out at Montgomery street; thence northwardly along the said line midway between New York avenue and Brooklyn avenue to the intersection with a line midway between Union street and President street; thence eastwardly along the said line midway between Union street and President street to the point or place of beginning.

Resolved, That this Board consider the proposed area 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 2d day of May, 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 and the corporation newspapers for ten days prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of Evergreen avenue, from Chauncey street to the westerly right-of-way line of the Long Island Railroad near Granite street, in the Borough of Brooklyn, 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 section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on the westerly right-of-way line of the Long Island Railroad where it is intersected by a line midway between Central avenue and Evergreen avenue and running thence southwardly along the said right-of-way line to the intersection with a line distant 100 feet southwesterly from and parallel with the southwesterly line of Evergreen avenue, the said distance being measured at right angles to Evergreen avenue; thence northwestwardly along the said line parallel with Evergreen avenue to the intersection with a line midway between Pilling street and Granite street; thence southwestwardly along the said line midway between Pilling street and Granite street to the intersection with a line midway between Evergreen avenue and Bushwick avenue; thence northwestwardly along the said line midway between Evergreen avenue and Bushwick avenue to the intersection with a line midway between Moffat street and Chauncey street; thence northeastwardly along the said line midway between Moffat street and Chauncey street to the intersection with a line midway between Central avenue and Evergreen avenue; thence southeastwardly along the said line midway between Central avenue and Evergreen avenue to the point or place of beginning.

Resolved, That this Board consider the proposed area 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 2d day of May, 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 and the corporation newspapers for ten days prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of East 29th street, from Germania place to Avenue J, and from Avenue M to the northerly property line of the Coney Island Jockey Club south of Avenue U, excluding the right-of-way of the Long Island Railroad, in the Borough of Brooklyn, 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 section 980 of the Greater New York Charter, hereby gives notice that the following are the proposed areas of assessment for benefit in this proceeding:

1. Beginning at a point on the southerly line of Avenue J, midway between East 29th street and Nostrand avenue, and running thence westwardly along the southerly line of Avenue J to the intersection with a line midway between East 28th street and East 29th street; thence northwardly along the said line midway between East 28th street and East 29th street to the intersection with the prolongaion of a line distant 100 feet northwesterly from and parallel with the northwesterly line of Germania place, the said distance being measured at right angles to Germania place; thence northeastwardly along the said line parallel with Germania place and along the prolongation of the said line to the intersection with a line at right angles to Germania place and passing through a point on its southeasterly side where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the easterly line of East 29th street and the westerly line of Nostrand avenue as these streets are laid out between Avenue H and Avenue I; thence southeastwardly along the said line at right angles to Germania place to the intersection with its southeasterly side; thence southwardly along the said bisecting line to the intersection with the prolongation of a line midway between East 29th street and Nostrand avenue as these streets are laid out between Avenue I and Avenue J; thence southwardly along the said line midway between East 29th street and Nostrand avenue and along the prolongation of the said line to the point or place of beginning.

2. Bounded on the north by the northerly line of Avenue M; on the east by a line midway between East 29th street and Nostrand avenue and by the prolongation of the said line; on the south by a line distant 100 feet southerly from and parallel with the northerly property line of the Coney Island Jockey Club, the said distance being measured at right angles to the said property line, and on the west by a line midway between East 28th street and East 29th street and by the prolongation of the said line.

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 2d day of May, 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 and the Corporation newspapers for ten days prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of amending the proceeding instituted by said Board on the 14th day of December, 1911, for acquiring title to West 244th street, from its intersection with Spuyten Duyvil parkway, and Fieldston road to Waldo avenue; Waldo avenue, from West 244th street to West 242d street; West 242d street, from Waldo avenue to Broadway; Corlear avenue, from West 242d street to the intersection of Broadway and West 246th street; Broadway, from West 242d street to Corlear avenue; together with the public park bounded by Corlear avenue, Broadway and West 242d street, in the Borough of The Bronx, City of New York, so as to relate to West 244th street, from its intersection with Spuyten Duyvil parkway and Fieldston road to Waldo avenue; Waldo avenue, from West 244th street to West 242d street; West 242d street, from Waldo avenue to Broadway; Corlear avenue, from West 242d street to West 246th street; West 246th street, from its intersection with West 242d street and Broadway to the prolongation of the northerly line of the second unnamed street north of West 242d street; first unnamed street north of West 242d street, from Broadway to West 246th street; second unnamed street north of West 242d street, from Broadway to West 246th street; together with the public park bounded by Corlear avenue, West 246th street and West 242d street; the public park bounded by Broadway, West 246th street and the first unnamed street north of West 242d street; and the public park bounded by the first unnamed street north of West 242d street, West 246th street, the second unnamed street north of West 242d street and Broadway, in the Borough of The Bronx, City of New York;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proposed amended proceeding:

Beginning at a point on a line midway between Netherland avenue and Riverdale avenue, where it is intersected by the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of West 246th street as this street is laid out between Riverdale avenue and Faraday avenue, the said distance being measured at right angles to West 246th street, and running thence eastwardly along the said line parallel with West 246th street and along the prolongations of the said line, to the intersection with the prolongation of a line distant 100 feet northerly from and parallel with the northerly line of West 246th street as this street is laid out between Tibbett avenue and Malcolm place, the said distance being measured at right angles to West 246th street; thence eastwardly along the said line parallel with West 246th street and along the prolongations of the said line to a point distant 300 feet easterly from the easterly line of Broadway, the said distance being measured at right angles to Broadway; thence southwardly and always distant 300 feet easterly from and parallel with the easterly line of Broadway to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Van Cortlandt Park South, the said distance being measured at right angles to Van Cortlandt Park South; thence westwardly and always distant 100 feet northerly from and parallel with the northerly lines of Van Cortlandt Park South and of West 240th street, and the prolongations thereof, to a point distant 100 feet westerly from the westerly line of Spuyten Duyvil road, the said distance being measured at right angles to Spuyten Duyvil road; thence southwardly and always distant 100 feet westerly from and parallel with the westerly line of Spuyten Duyvil road to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of West 238th street as this street is laid out between Riverdale avenue and Waldo avenue, the said distance being measured at right angles to West 238th street; thence westwardly along the said line parallel with West 238th street 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 Riverdale avenue as this street adjoins West 238th street as laid out immediately west of Riverdale avenue, the said distance being measured at right angles to Riverdale avenue; thence northwardly along the said line parallel with Riverdale avenue and along th prolongation of the said line to the intersection with the prolongation of a line midway between Riverdale avenue and Netherland avenue, as these streets are laid out northerly from West 245th street; thence northwardly along the said line midway between Riverdale avenue and Netherland avenue and along the prolongation of the said line to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in the City of New York, Bor-

ough of Manhattan, in the City Hall, on the 2d day of May, 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 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of Thew avenue, from Corinth avenue to Satterlee avenue, 2d Ward, 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 required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings:

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed area of assessment for benefit in these proceedings:

Beginning at a point on the centre line of Corinth avenue where it is intersected by the prolongation of a line midway between Thew avenue and Corinth avenue, as these streets are laid out south of Jansen avenue, and running thence southwardly along the said line midway between Thew avenue and Corinth avenue and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Satterlee avenue, the said distance being measured at right angles to Satterlee avenue; thence westwardly and always distant 100 feet southerly from and parallel with the southerly line of Satterlee avenue to the intersection with the prolongation of a line midway between Thew avenue and Weisse avenue; thence northwardly along the said line midway between Thew avenue and Weisse avenue and along the prolongations of the said line, to the intersection with a line distant 100 feet northwesterly from and parallel with the northwesterly line of Samuelson street, the said distance being measured at right angles to Samuelson street; thence northeastwardly along the said line parallel with Samuelson street to the intersection with a line distant 100 feet northeasterly from and parallel with the northeasterly line of Corinth avenue, as this street is laid out where it adjoins Samuelson street, the said distance being measured at right angles to Corinth avenue; thence southeastwardly along the said line parallel with Corinth avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Whitlock avenue, the said distance being measured at right angles to Whitlock avenue; thence westwardly along the said line parallel with Whitlock avenue to the intersection with the centre line of Corinth avenue; thence southeastwardly along the centre line of Corinth avenue to the point or place of beginning.

Resolved, That this Board consider the proposed area 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 2d day of May, 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 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of Mazeau street, from Whitney street to Metropolitan avenue, 2d Ward, 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 required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed area of assessment for benefit in these proceedings:

Beginning at a point on the southerly line of Metropolitan avenue where it is intersected by the prolongation of a line midway between Ramsey street and Mazeau street, and running thence northwardly along the said line midway between Ramsey street and Mazeau street and along the prolongation of the said line to the intersection with the southerly line of Grand street; thence northwardly in a straight line to a point on the northerly line of Grand street where it is intersected by a line distant 100 feet westerly from and parallel with the westerly line of Mazeau street as this street is laid out between Grand street and Whitney street, the said distance being measured at right angles to Mazeau street; thence northwardly along the said line parallel with Mazeau street and along the prolongation of the said line to the intersection with the southerly line of Whitney street; thence northwardly and parallel with Ramsey street as this street is laid out north of Whitney street to the intersection with a line distant 100 feet northerly from and parallel with the northerly line of Whitney street, the said distance being measured at right angles to Whitney street; thence eastwardly along the said line parallel with Whitney street to the intersection with the prolongation of a line midway between Mazeau street and La Forge street as these streets are laid out between Grand street and Whitney street; thence southwardly along a line always midway between Mazeau street and La Forge street and along the prolongation of the said line to the intersection with the northerly line of Metropolitan avenue; thence southwardly at right angles to Metropolitan avenue a distance of 200 feet; thence westwardly and parallel with Metropolitan avenue to the intersection with a line at right angles to Metropolitan avenue and passing through the point of beginning; thence northwardly along the said line at right angles to Metropolitan avenue to the point or place of beginning.

Resolved, That this Board consider the proposed area 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 2d day of May, 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 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

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 the opening and extending of School street, from Thomson avenue to a point 100 feet north of Nott avenue; Hill street, from Skillman avenue to Gale street; Rawson streeet, from Skillman avenue to Hunters Point avenue; Moore street, from Skillman avenue to Hunters Point avenue; Honeywell street, from Queens boulevard to Hunters Point avenue; and Buckley street, from Skillman avenue to Hunters Point 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 required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceedings.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, as amended, hereby gives notice that the following are the proposed areas of assessment for benefit in these proceedings:

1. Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Thomson avenue, the said distance being measured at right angles to Thomson avenue; on the east by a line midway between School street and Van Dam street and by the prolongation of the said line; on the south by the northerly line of Nott avenue; and on the west by a line midway between School street and Mcunt street and by the prolongation of the said line.

2. Beginning at a point on the northerly line of Skillman avenue where it is intersected by the prolongation of a line midway between Buckley street and Hulst street, and running thence southwardly along the said line midway between Buckley street and Hulst street and along the prolongations of the said line to the intersection with the centre line of Greenpoint avenue; thence southwestwardly along the centre line of Greenpoint avenue to the intersection with a line distant 100 feet southwesterly from and parallel with the southwesterly line of Hunters Point avenue, the said distance being measured at right angles to Hunters Point avenue; thence northwestwardly along the said line parallel with Hunters Point avenue to the intersection with a line distant 100 feet easterly from and parallel with the easterly line of Hill street, the said distance being measured at right angles to Hill street; thence southwardly along the said line parallel with Hill street to the intersection with the northeasterly line of Gale streeet; thence southwestwardly at right angles to Gale street a distance of 160 feet; thence northwestwardly and parallel with Gale streeet to the intersection with the prolongation of a line midway betweeen Van Dam street and Hill street; thence northwardly along the said line midway between Van Dam street and Hill street and along the prolongations of the said line to the intersection with the northerly line of Skillman avenue; thence eastwardly along the northerly line of Skillman avenue to the intersection with the prolongation of a line midway between Moore street and Honeywell street; thence southwardly along the said line midway between Moore street and Honeywell street to the intersection with the centre line of Queens boulevard; thence eastwardly along the centre line of Queens boulevard to the intersection with a line midway between Honeywell street and Buckley street; thence northwardly along the said line midway between Honeywell street and Buckley street and along the prolongation of the said line to the intersection with the northerly line of Skillman avenue; thence eastwardly along the northerly line of Skillman avenue to the point or place of beginning; excluding, however, from the above described areas such land as is exempt from assessment under the provisions of section 992 of the City Charter.

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 2d day of May, 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 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment held on March 21, 1912, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of amending the proceeding instituted by said Board on the 26th day of March, 1909, for acquiring title to the lands and premises required for the opening and extending of Skillman place, from Hunter avenue to Jackson avenue, in the 1st Ward of the Borough of Queens, City of New York, so as to relate to Skillman place, from Hunter avenue to Jackson avenue, in the 1st Ward of the Borough of Queens, City of New York, as shown upon a map or plan adopted by the Board of Estimate and Apportionment on the 7th day of March, 1912;

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proposed amended proceeding:

Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Skillman place, and by the prolongations of the said line; on the east by a line distant 100 feet easterly from and parallel with the easterly line of Jackson avenue; on the south by a line distant 100 feet southerly from and parallel with the southerly line of Skillman place, and by the prolongations of the said line; and on the west by a line distant 50 feet easterly from and parallel with the easterly line of Academy street.

(All distances are intended to be measured at right angles to the line to which they are referred, and the lines of Skillman place hereinbefore referred to are those as laid out prior to March 7, 1912.)

Resolved, That this Board consider the proposed area 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 2d day of May, 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 2d day of May, 1912.

Dated April, 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone, 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out the lines and grades of the tunnel street, extending from Riverside drive to Bennett avenue, Borough of Manhattan, and that a meeting of said Board will be held in the old Council Chamber, City Hall, Borough of Manhattan, City of New York, on May 2, 1912, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on April 11, 1912, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out the lines and grades of the tunnel street, extending from Riverside drive to Bennett avenue, in the Borough of Manhattan, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated October 17, 1911.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 2d day of May, 1912, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 2d day of May, 1912.

Dated April 19, 1912.

JOSEPH HAAG, Secretary, 277 Broadway. Telephone 2280 Worth. a19,30

NOTICE IS HEREBY GIVEN THAT AT THE meeting of the Board of Estimate and Apportionment, held on April 11, 1912, the Board *continued until April* 25, 1912, the hearing in the matter of acquiring title to *Atlantic avenue, from the Brooklyn Borough line to Van Wyck avenue, excluding all land which may fall within the limits of the right-of-way of the Long Island Railroad Company, and all land actually occupied by railroad buildings, Borough of Queens.*

The hearing will be held in the old Council Chamber, Room 16, City Hall, Borough of Manhattan, City of New York, on Thursday, April 25, 1912, at 10.30 o'clock a. m.

The following is the proposed area of assessment in the proposed proceeding:

Beginning at a point on a line midway between Grant avenue and Elderts lane where it is intersected by the prolongation of a line midway between Fulton street and Atlantic avenue as these streets are laid out between Shaw avenue and Nevada avenue, and running thence eastwardly along the said line midway between Fulton street and Atlantic avenue and along the prolongation of the said line to the intersection with the westerly line of Hatch avenue; thence eastwardly in a straight line to a point on the easterly line of Hatch avenue where it is intersected by the prolongation of a line midway between Sherry street and Fenhurst place as these streets are laid out between Freedom avenue and Oxford avenue; thence eastwardly along the said line midway between Sherry street and Fenhurst place and along the prolongation of the said line to the intersection with the westerly line of Herald avenue; thence eastwardly in a straight line to a point on the easterly line of Herald avenue where it is intersected by a line bisecting the angle formed by the intersections of the prolongations of the southerly line of Fulton street and the northerly line of Atlantic avenue as these streets are laid out between Guion avenue and Napier avenue; thence eastwardly along the said bisecting line to the intersection with the westerly line of Greenwood avenue; thence eastwardly in a straight line to a point on the easterly line of Greenwood avenue where it is intersected by a line midway between Fulton street and Atlantic avenue as these streets are laid out immediately east of Greenwood avenue; thence eastwardly along the said line midway between Fulton street and Atlantic avenue and along the prolongation of the said line to the intersection with the southwesterly right of way line of the Montauk Division of the Long Island Railroad; thence southeastwardly along the said right of way line to the intersection with the westerly line of Van Wyck avenue; thence eastwardly at right angles to Van Wyck avenue a distance of 200 feet; thence southwardly and parallel with Van Wyck avenue to the intersection with the prolongation of a line distant 100 feet southerly from and parallel with the southerly line of Garden street, the said distance being measured at right angles to Garden street; thence westwardly along the said line parallel with Garden street and along the prolongations of the said line to the intersection with a line midway between South Vine street and South Curtis avenue as these streets are laid out at Chichester avenue; thence northwardly along the said line midway between South Vine street and South Curtis avenue to the intersection with a line midway between Atlantic avenue and Chichester avenue as these streets are laid out between Spruce street and South Vine street; thence westwardly along the said line midway between Atlantic avenue and Chichester avenue and along the prolongations of the said line to the intersection with a line midway between Church street and Lefferts avenue; thence northwardly along the said line midway between Church street and Lefferts avenue to the intersection with a line midway between Atlantic avenue and Chichester avenue as these streets are laid out between Hamilton avenue and Lefferts avenue; thence westwardly along the said line midway between Atlantic avenue and Chichester avenue to the intersection with the westerly line of Hamilton avenue; thence westwardly in a straight line to a point on the easterly line of Cedar avenue where it is intersected by a line midway between Atlantic avenue and Chichester avenue as these streets are laid out between Greenwood avenue and Cedar avenue; thence westwardly along the said line midway between Atlantic avenue and Chichester avenue to the intersection with the westerly line of Greenwood avenue; thence westwardly in a straight line to a point on the easterly line of Napier avenue where it is intersected by a line midway between Atlantic avenue and Chichester avenue as these streets are laid out between Portland avenue and Napier avenue; thence westwardly along the said line midway between Atlantic avenue and Chichester avenue to the intersection with a line midway between Portland avenue and Herald avenue; thence northwardly along the said line midway between Portland avenue and Herald avenue to the intersection with the prolongation of a line midway between Atlantic avenue and Colby street as these streets are laid out immediately west of Freedom avenue; thence westwardly along the said line midway between Atlantic avenue and Colby street and along the prolongations of the said line to the intersection with a line midway between Vanderveer avenue and Hatch avenue as these streets are laid out immediately north of Chichester avenue; thence southwardly along the said line midway between Vanderveer avenue and Hatch avenue to the intersection with the prolongation of a line midway between Atlantic avenue and Chichester avenue as these streets are laid out at Woodhaven avenue; thence westwardly along the said line midway between Atlantic avenue and Chichester avenue and along the prolongations of the said line to the intersection with the prolongation of a line midway between Grant avenue and Elderts lane as these streets are laid out north of Atlantic avenue; thence northwardly along the said line midway between Grant avenue and Elderts lane and along the prolongation of the said line to the point or place of beginning.

Dated April 12, 1912.

JOSEPH HAAG, Secretary, 277 Broadway, Room 1406, Telephone, 2280 Worth. a12,24

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

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 DOCKS AND FERRIES.

DEPARTMENT OF DOCKS AND FERRIES, PIER A, FOOT OF BATTERY PLACE, NORTH RIVER, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

JOSEPH P. DAY, AUCTIONEER, WILL sell on behalf of the Department of Docks and Ferries at public auction, to the highest bidder on

FRIDAY, APRIL 26, 1912,

commencing at 12 o'clock noon, at Pier A, foot of Battery place, North River, the herein detailed privileges, to be exercised, under and according to the terms, conditions and limitations of agreement with the Commissioner of Docks, to be entered into as hereinafter required, for a term of three years beginning at noon May 1, 1912, except the privileges detailed in Lot No. 2, as herein enumerated, which shall be exercised for a term of one year, beginning at noon, May 1, 1912.

Each lot will be sold separately and will include the various privileges specified under the lot number.

LOT NO. 1—UPSET PRICE, $8,500 PER ANNUM.

Privileges at the St. George terminal of the Staten Island ferry, as follows:

A—The privilege of vending, selling and furnishing newspapers, books, periodicals, confectionery, soda water, bottled mineral waters, ice cream with soda water, cigars, tobacco, and fruits, and any other article which may at any time be included at the discretion of the Commissioner of Docks. This privilege includes the use of the stand in the Terminal Building. All articles offered for sale must be confined within the stand area, except that a small stand for the sale of newspapers will be allowed at such point as may be designated by the Commissioner of Docks. The stand referred to within the Terminal Building is the property of The City of New York.

B—The privilege of maintaining a stand to be located near the passenger entrance to the ferryboats, for the vending, selling and furnishing of flowers, at the site of the existing flower stand or at such other location in the Terminal Building as may be approved by the Commissioner of Docks. The flower stand or icebox must be furnished by and at the expense of the successful bidder, the design and dimensions of the stand to be subject to approval by the Commissioner of Docks; the stand so furnished by the successful bidder will remain the property of the successful bidder and must be removed by him at or before the expiration of the term for which the privilege is granted. The flower stand now used is the property of the present permittee. The flowers must be kept within the stand area.

C—The privilege of maintaining a stand to be located on the outside concourse at the terminal, for vending, selling and furnishing fruit. The stand must be furnished by and at the expense of the successful bidder, the design and dimensions of the stand to be subject to approval by the Commissioner of Docks. The stand so furnished by the successful bidder will remain the property of the successful bidder and must be removed by him at or before the expiration of the term for which the privilege is granted. The stand now used is the property of the present permittee. All the fruit offered for sale must be kept within the stand area.

D—The privilege of maintaining a barber shop in the Terminal Building in the enclosure now occupied by the existing barber shop under such restrictions as the Commissioner of Docks shall direct. The enclosure is part of the ferry house. The equipment of the existing barber shop is the property of the present permittee. The suc-

cessful bidder must furnish his own equipment, chairs, shelves, etc., at his own expense, which equipment will remain his property and which must be removed by him at or before the expiration of the term for which the privilege is granted.

E—The privilege of maintaining and operating a restaurant within the Terminal Building. This privilege will allow the operation of a restaurant under such restrictions as the Commissioner of Docks shall direct. The restaurant enclosure in the Terminal Building is a part of the Terminal Building and is owned by the City, but the equipment must be provided by the successful bidder at his own cost and expense. This equipment so furnished by the successful bidder shall remain the property of the successful bidder and shall be removed by him at or before the expiration of the term for which the privilege is granted.

The Commissioner of Docks reserves the right to grant to other than the successful bidder for the privileges at the St. George terminal the right and privilege to occupy space at the St. George terminal for the sale of newspapers, periodicals, etc., for wholesale distribution only.

LOT NO. 2—UPSET PRICE, $10,300 PER ANNUM.

Lot No. 2 includes privileges at the Manhattan Terminal of the Staten Island Ferry as follows:

A—The privilege of vending, selling and furnishing newspapers, books, periodicals, confectionery, soda water, bottled mineral waters, cigars, tobacco and fruits, and any other article which may at any time be included at the discretion of the Commissioner of Docks. This privilege will include the use of the stand on the lower floor of the Terminal Building and the use of the stand on the upper floor of the Terminal Building. All articles offered for sale must be confined within the stand area, except that a small stand for the sale of newspapers will be allowed at the entrance to the Terminal Building at such point as may be designated by the Commissioner of Docks. The stands referred to within this Terminal Building are the property of The City of New York.

B—The privilege of maintaining a stand on the lower floor of the Terminal Building at the foot of the stairs leading to the upper floor, for the vending, selling and furnishing of flowers. The flowers must be confined within the stand area. This stand may be placed in the Terminal Building at some other location than the one indicated, such other location to be subject absolutely to approval by the Commissioner of Docks. The flower stand or icebox must be furnished by and at the expense of the successful bidder, the design and dimensions of the stand to be subject to approval by the Commissioner of Docks; the stand so furnished by the successful bidder will remain the property of the successful bidder and must be removed by him at or before the expiration of the term for which the privilege is granted. The stand now used is the property of the present permittee.

C—The privilege of maintaining a stand on the easterly side of the ground floor passenger entrance at the site now occupied, immediately outside the terminal building, for vending, selling and furnishing fruit. The fruit stand now installed is the property of the present permittee. The successful bidder must furnish his own stand at his own expense, the design of the same to be subject to approval by the Commissioner of Docks and the dimensions of the stand not to exceed those of the existing stand. The stand so furnished by the successful bidder will remain the property of the successful bidder and must be removed by him at or before the expiration of the term for which the privilege is granted. All articles offered for sale must be kept within the stand area, except that a small additional space adjacent to the stand may be occupied by a peanut roaster.

LOT NO. 3—UPSET PRICE, $1,500 PER ANNUM.

Privileges at the Manhattan Terminal of the 39th Street Ferry as follows:

A—The privilege of vending, selling and furnishing newspapers, books, periodicals, confectionery, soda water, bottled mineral waters, cigars, tobacco, and any other articles which may at any time be included at the discretion of the Commissioner of Docks. This privilege will include the use of the stand on the lower floor of the Terminal Building and the use of the stand on the upper floor of the Terminal Building. All articles offered for sale must be confined within the stand area, except that a small stand for the sale of newspapers will be allowed at the entrance to the Terminal Building at such point as may be designated by the Commissioner of Docks. The stands referred to within this building are the property of The City of New York.

LOT NO. 4—UPSET PRICE $100 PER ANNUM.

Privileges at the Stapleton Terminal of the Stapleton Ferry:

A—The privilege of vending, selling and furnishing newspapers, books, periodicals, confectionery, soda water, bottled mineral waters, cigars, tobacco, fruits and flowers, and any other article which may at any time be included at the discretion of the Commissioner of Docks. This privilege will include the use of the stand now installed at the Terminal Building. This stand is the property of The City of New York. All articles offered for sale must be confined within the stand area, except that a small stand for the sale of newspapers will be allowed at the entrance of the Terminal Building at such point as may be designated by the Commissioner of Docks.

GENERAL TERMS AND CONDITIONS.

1. All bidding shall be upon the basis of an aggregate per annum fee or compensation to The City of New York for all the privileges included in the lot, which shall be payable quarterly, in advance and in equal sums, on the first day of May, August, November and February, respectively, to the Cashier of the Department of Docks and Ferries.

2. The successful bidder on each lot will be allowed the privilege of subletting any portion or portions of the privileges included within the lot; subject, however, to consent thereto in writing being first obtained from the Commissioner of Docks. The subletting of any portion of the privileges without having first obtained the consent, in writing, of the Commissioner of Docks thereto shall at once subject the successful bidder to forfeiture of the privileges held by him, at the election of the Commissioner of Docks, who, in the event of any such forfeiture, shall then have the power at any time during the term of the privileges to revoke and cancel the permit for the exercise thereof and to resell such privileges; and the successful bidder so forfeiting privileges shall be liable to The City of New York for any deficiency resulting from such resale.

3. The successful bidder on each lot will be required to:

(a) Pay, at the time of sale, the Auctioneer's fee of $25 on the lot.

(b) Enter into a written agreement, at the time of the sale, with the Commissioner of Docks to comply with the terms, conditions and limitations of the permit issued to him by the Commissioner of Docks, blank forms of which are on file for examination at the office of the Secretary of the Department of Docks and Ferries.

(c) Pay to the Department of Docks and Ferries, at the time of the sale, 25 per cent. of the amount of the annual fee or compensation to be paid The City of New York for said lot, as security for carrying into effect the terms of the sale, which 25 per cent. will be applied to the payment of the quarterly installment of such fee or compensation first accruing under said agreement when executed, or will be forfeited to The City of New York as liquidated damages if the successful bidder neglects or refuses to execute the agreement, with good and sufficient bond or obligation of a surety company authorized by law to act as surety in the sum of the upset annual fee or compensation herein specified for the lot to be approved by the Commissioner of Docks, for the faithful performance of the terms and conditions thereof, within five days after being notified that the agreement is prepared and ready for execution at the office of the Department of Docks and Ferries, Pier A, foot of Battery place, North River.

(d) Arrange with the Department of Water Supply, Gas and Electricity for the water required in connection with the privileges, and must pay to said Department the regular water charges for the water used. All gas installation will be by and at the expense of the successful bidder, subject to the rules and regulations of the Department of Water Supply, Gas and Electricity, and the gas must be paid for by the successful bidder. Any electricity required by the successful bidders other than the regular lighting of the terminals, must be paid for by the successful bidders. No installation of water, gas or electricity shall be attempted without consent being first obtained from the Deparment of Water Supply, Gas and Electricity and from the Commissioner of Docks.

4. The Commissioner of Docks expressly reserves the right to

(a) Revoke, cancel and annul any permit issued to or agreement made with any successful bidder at this sale who shall fail or neglect to observe, keep and perform any of the terms, conditions or limitations of such permit or agreement.

(b) Resell any privileges where the successful bidder fails, refuses or neglects to comply with the terms and conditions herein contained, the parties so failing, refusing or neglecting to be liable to The City of New York for any deficiency resulting from or occasioned by such resale.

(c) Grant to other than the successful bidder at any terminal the privilege to maintain and operate thereat automatic weighing machines and "cent-a-drink" machines or other similar water machines.

(d) Reject any or all bids, if, in his judgment, he deems it for the best interests of The City of New York so to do. No person will be accepted as a successful bidder who is delinquent on any form of contract with the Department of Docks and Ferries or with The City of New York. No bid will be received from any person who is in arrears to the Department of Docks and Ferries, or to The City of New York, upon debt or contract, or who is a defaulter of surety or otherwise upon any obligation to the Department of Docks and Ferries or to The City of New York.

CALVIN TOMKINS, Commissioner of Docks.
Dated New York, April 22, 1912. a23,26

SUPREME COURT—FIRST DEPARTMENT.

FIRST DEPARTMENT.

In the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of EAST TWO HUNDRED AND THIRTY-SIXTH STREET, from First street (or Bullard avenue) to Barnes avenue; and of EAST TWO HUNDRED AND THIRTY-SEVENTH STREET, from Bullard avenue (First street) to Barnes avenue, 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 estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at their office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 13th day of May, 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 15th day of May, 1912, at 3 o'clock p. m.

Second—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with him at his office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 13th day of May, 1912, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 16th day of May, 1912, at 3 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 18th day of December, 1908, and that the said 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 westerly side of Bullard avenue where it is intersected by the prolongation of a line midway between East Two Hundred and Thirty-fifth street and East Two Hundred and Thirty-sixth street, and thence running northwardly, westwardly and northwardly along the said westerly line of Bullard avenue to the intersection with the prolongation of a line midway between East Two Hundred and Thirty-seventh street and Nereid avenue; thence southeastwardly along the said line midway between Nereid avenue and East Two Hundred and Thirty-seventh street and the prolongation thereof to the intersection of a line bisecting the angle formed by the intersection of the prolongations of the northeasterly line of East Two Hundred and Thirty-seventh street and the southwesterly line of Nereid avenue, as these streets are laid out between White Plains road and Byron avenue; thence southeastwardly along the said bisecting line to a point distant 100 feet southeasterly from the southeasterly line of Barnes avenue, the said distance being measured at right angles to the line of Barnes avenue; thence southwestwardly and parallel with Barnes avenue to the intersection with a line midway between East Two Hundred and Thirty-fourth street and East Two Hundred and Thirty-fifth street; thence northwestwardly along the said line midway between East Two Hundred and Thirty-fourth street and East Two Hundred and Thirty-fifth street to a point distant 100 feet northwesterly from the northwesterly line of White Plains road; thence northeastwardly and parallel with White Plains road to the intersection with a line midway between East Two Hundred and Thirty-fifth street and East Two Hundred and Thirty-sixth street; thence northwestwardly along the said line midway between East Two Hundred and Thirty-fifth street and East Two Hundred and Thirty-sixth street and the prolongation thereof to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 15th day of May, 1912.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, 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 27th day of June, 1912, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Manhattan, New York, April 16, 1912.

GEORGE B. HAYES, Chairman; WILLIAM J. KELLY, MONROE GOLDWATER, Commissioners of Estimate; GEORGE B. HAYES, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. a23,m9

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of EAST TWO HUNDRED AND TWENTY-SECOND STREET (Eighth Street, Williamsbridge) (although not yet named by proper authority), from Seventh avenue to the Hutchinson River, in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Assessment in the above-entitled matter will be presented for confirmation to the Supreme Court of the State of New York, 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 7th day of May, 1912, at 10.30 o'clock in the forenoon of that day; and that the said final report has been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of five days, as required by law.

Dated Borough of Manhattan, New York, April 24, 1912.

MICHAEL J. COONEY, WILLIAM HENDERSON, MAURICE S. COHEN, Commissioners of Estimate and Assessment.

JOEL J. SQUIER, Clerk. a24,29

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 CANAL STREET, between the Bowery and Chrystie street, in the Tenth Ward, Borough of Manhattan, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, First Department, bearing date the 15th day of April, 1912, and duly entered and filed in the office of the Clerk of the County of New York on the 17th day of April, 1912, Charles H. Strong, Edgar J. Nathan and Alfred E. Smith were appointed Commissioners of Estimate in the above-entitled proceeding, and that in and by the said order Charles H. Strong was appointed the Commissioner of Assessment.

Notice is further given that, pursuant to the statutes in such cases made and provided, the said Charles H. Strong, Edgar J. Nathan and Alfred E. Smith will attend at a Special Term, Part II., of the Supreme Court of the State of New York, First Department, to be held at the County Court House, in the Borough of Manhattan, in The City of New York, on the 2d day of May, 1912, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel, or by any other person having any interest in the said proceeding, as to their qualifications to act as such Commissioners.

Dated New York, April 20, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, office and post office address, Hall of Records, Borough of Manhattan, City of New York. a20,m1

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 TIBBETT AVENUE, from West Two Hundred and Thirtieth street to West Two Hundred and Fortieth street, and of CORLEAR AVENUE, from West Two Hundred and Thirtieth street to West Two Hundred and Fortieth street, 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 estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing duly verified, with them at their office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 3d day of May, 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 6th day of May, 1912, at 2 o'clock p. m.

Second—That the undersigned Commissioner of Assessment has completed his estimate of benefit and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing, duly verified, with them at his office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 3d day of May, 1912, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at his said office on the 7th day of May, 1912, at 2 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assesssment fixed and precribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 19th day of November, 1909, and that the said 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 distant 100 feet northerly from the prolongation of the northerly line of West Two Hundred and Fortieth street, as this street is laid out west of Broadway, the said distance being measured at right angles to West Two Hundred and Fortieth street, and the said point being located on the prolongation of a line midway between Corlear avenue and Kingsbridge avenue, as these streets are laid out between West Two Hundred and Thirty-sixth street and West Two Hundred and Thirty-eighth street, and running thence southwestwardly along the said line midway between Corlear avenue and Kingsbridge avenue, and along the prolongations 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 Kingsbridge avenue and the southeasterly line of Corlear avenue, as these streets are laid out between West Two Hundred and Thirty-second street and West Two Hundred and Thirty-fourth street; thence southwestwardly along the said bisecting line to the intersection with the prolongation of a line midway between Corlear avenue and Kingsbridge avenue, as these streets are laid out between West Two Hundred and Thirtieth street and West Two Hundred and Thirty-first street; thence southwestwardly along the said line midway between Corlear avenue and Kingsbridge avenue, and along the prolongations of the said line to a point distant 100 feet southwesterly from the southwesterly line of West Two Hundred and Thirtieth street, the said distance being measured at right angles to West Two Hundred and Thirtieth street; thence northwestwardly and always distant 100 feet southwesterly from and parallel with the southwesterly line of West Two Hundred and Thirtieth street, and the prolongation thereof, to the intersection with the prolongation of a line distant 100 feet northwesterly from and parallel with the northwesterly line of Corlear avenue, as this street is laid out between West Two Hundred and Thirtieth street and West Two Hundred and Thirty-first street, the said distance being measured at right angles to Corlear avenue; thence northeastwardly along the prolongation of the said line parallel with Corlear avenue to a point distant 100 feet southwesterly from the southwesterly line of West Two Hundred and Thirtieth street, as this street is laid out between Tibbett avenue and Corlear avenue, the said distance being measured at right angles to West Two Hundred and Thirtieth street; thence northwestwardly and parallel with West Two Hundred and Thirtieth street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Tibbett avenue and Spuyten Duyvil road, as these streets are laid out southwesterly from and where they adjoin West Two Hundred and Thirty-second street; thence northeastwardly along the said bisecting line to the intersection with the prolongation of a line midway between Spuyten Duyvil road and Tibbett avenue, as these streets are laid out between West Two Hundred and Thirty-second street and West Two Hundred and Thirty-sixth street; thence northeastwardly along the said line midway between Spuyten Duyvil road and Tibbett avenue, and along the prolongations of the said line, to the intersection with a line parallel with West Two Hundred and Fortieth street and passing through the point of beginning; thence eastwardly along the said line parallel with West Two Hundred and Fortieth street to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 6th day of May, 1912.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, 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 27th day of June, 1912, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Manhattan, New York, April 9, 1912.

EDWARD D. DOWLING, Chairman; EDWIN OUTWATER, CHRISTIAN BROSCHART, Commissioners of Estimate; EDWARD D. DOWLING, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. a13,30

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 the wharfage rights, terms, easements, emoluments and privileges appurtenant to PIERS (OLD) NO. 32, OR JAMES SLIP PIER, AND (OLD) NO. 33, OR OLIVER STREET PIER, East River, in the Borough of Manhattan, City of New York, not now owned by The City of New York, and all right, title and interest in and to said piers or any portion thereof not now owned by The City of New York, and all the wharfage rights, terms, easements, emoluments and privileges appurtenant to all that certain bulkhead, dock or wharf property on the southerly side of South street, in said Borough and City, between the easterly side of Pier (Old) No. 32, or James Slip Pier, and the westerly side of Pier (Old) No. 33, or Oliver Street Pier, not now owned by The City of New York, for the improvement of the water front of The City of New York on the East River, pursuant to the plan heretofore adopted by the Board of

Docks and approved by the Commissioners of the Sinking Fund.

WE THE UNDERSIGNED COMMISSIONERS of Estimate 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, pier or wharf property, and all persons interested therein, or in any rights, privileges or interests pertaining thereto, 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 uplands, lands, lands under water, premises, buildings, tenements, hereditaments, pier and wharf property affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us, at our office, Room No. 402, No. 258 Broadway, in the Borough of Manhatan, in The City of New York, on or before the 30th day of April, 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 1st day of May, 1912, at 10 o'clock in the forenoon of that day.

Second—That the abstract of our said estimate and assessment together with our damage map, and also all the affidavits, estimates, proofs and other documents used by us in making our report, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, at the office of said Bureau, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 29th day of April, 1912.

Third—That provided there be no objections filed to said abstract, our final report 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 14th day of May, 1912, at the opening of the Court on that day.

Fourth—In case, however, objections are filed to said abstract 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 heretofore 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 658 of the Laws of 1906.

Dated Borough of Manhattan, New York, April 6, 1912.

M. LINN BRUCE, PATRICK J. CASEY, EUGENE I. DRISCOLL, Commissioners.

JOSEPH M. SCHENCK, Clerk. a10,26

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 GUN HILL ROAD (although not yet named by proper authority), from Webster avenue to Elliott avenue, in the Twenty-fourth Ward, Borough of The Bronx, City of New York.

NOTICE IS HEREBY GIVEN THAT THE final supplemental and amended reports of the Commissioners of Estimate and of of the Commissioner of Assessment in the above-entitled matter 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 April, 1912, at 10.30 o'clock in forenoon of that day; and that the said final supplemental and amended reports have been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of five days, as required by law.

Dated, Borough of Manhattan, New York, April 19, 1912.

JOHN J. MACKIN, TIMOTHY E. COHALAN, Commissioners of Estimate; TIMOTHY E. COHALAN, Commissioner of Assessment.

JOEL J. SQUIER, Clerk. a19,24

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 UNNAMED STREET, adjoining Riverside drive on the east, and extending from West One Hundred and Seventy-seventh street at Riverside drive to West One Hundred and Eighty-first street, at Buena Vista avenue, in the Twelfth Ward, Borough of Manhattan, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held at the County Court House in the Borough of Manhattan, in The City of New York, on the 30th day of April, 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 New York, there to remain for and during the space of ten days, as required by law.

Dated Borough of Manhattan, New York, April 16, 1912.

DENIS O'L. COHALAN, JOSEPH LAZARUS, Commissioners of Estimate.

JOEL J. SQUIER, Clerk. a16,26

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, to the lands, tenements and hereditaments required for the opening and extending of AVENUE Z, from Jerome avenue to the bulkhead line, in the Thirty-first 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 6th day of May, 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, April 23, 1912.

FREDERIC E. GUNNISON, W. C. W. CHILD, EDWIN L. GARVIN, Commissioners of Estimate; FREDERIC E. GUNNISON, Commissioner of Assessment.

EDWARD RIEGELMANN, Clerk a23,m3

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been hertofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of PENELOPE STREET, from Juniper avenue to Queens boulevard, in the Second Ward, Borough of Queens, 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 Queens, in the Borough of Queens, in The City of New York, on Saturday, the 4th day of May, 1912, at the opening of the 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 by The City of New York in fee, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening and extending of Penelope street, from Juniper avenue to Queens boulevard, in the Second Ward, Borough of Queens, City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point formed by the intersection of the easterly line of Juniper avenue with the southerly line of Penelope street;

Running thence northerly for 62.54 feet along the easterly line of Juniper avenue to the northerly line of Penelope street;

Thence easterly deflecting to the right 73 degrees 35 minutes 57 seconds for 6,451.32 feet along the northerly line of Penelope street to the northwesterly line of Penelope street;

Thence northeasterly deflecting to the left 33 degrees 1 minute 31 seconds for 2,859 feet along the northwesterly line of Penelope street, and prolongation thereof to the southerly line of Old Hoffman boulevard, which is at present being widened and which forms part of Queens boulevard, as shown upon the final sections;

Thence southeasterly deflecting to the right 81 degrees 40 minutes for 51.68 feet along the southerly line of Old Hoffman boulevard;

Thence southeasterly deflecting to the right 7 degrees 53 minutes for 8.87 feet along the southerly line of Old Hoffman boulevard to the prolongation of the southeasterly line of Penelope street;

Thence southwesterly deflecting to the right 90 degrees 27 minutes for 2,873.08 feet along the southeasterly line of Penelope street and prolongation thereof to the northeasterly line of Everton street;

Thence southwesterly deflecting to the right 27 degrees 50 minutes 3 seconds for 67.85 feet along the southeasterly line of Penelope street to the intersection of the southerly line of Penelope street with the southwesterly line of Everton street;

Thence westerly for 6,428.64 feet along the southerly line of Penelope street to the easterly line of Juniper street, the point or place of beginning.

Penelope street, extending from Juniper avenue to Queens boulevard, in the Second Ward, Borough of Queens, City of New York, is shown upon the following sections of the final maps of the Borough of Queens:

Section No. 28—Adopted by Board of Estimate and Apportionment January 15, 1909; filed at County Clerk's Office at Jamaica August 10, 1909; filed at Borough President's Office August 13, 1909; filed in the Corporation Counsel's Office August 13, 1909.

Section No. 35—Adopted by Board of Estimate and Apportionment July 1, 1910; filed at County Clerk's Office at Jamaica April 6, 1911; filed at Borough President's Office April 7, 1911; filed in the Corporation Counsel's Office April 7, 1911.

Section No. 36—Adopted by Board of Estimate and Apportionment November 18, 1910; filed at County Clerk's Office at Jamaica March 2, 1911; filed at Borough President's Office February 27, 1911; filed in the Corporation Counsel's Office February 27, 1911.

Section No. 37—Adopted by Board of Estimate and Apportionment May 20, 1910; filed at County Clerk's Office at Jamaica August 23, 1910; filed at Borough President's Office August 23, 1910; filed in the Corporation Counsel's Office August 23, 1910.

And as also laid down upon plan altering lines and grades of that portion of Sections No. 17, 28 and 29 of the final maps of the Borough of Queens, bounded by Juniper avenue, Helen place, Fifth avenue, Penelope street, Bethune place, Lowell avenue, Metropolitan avenue, Mount Olivet avenue, Wayland avenue, Juniper avenue, Eliot avenue, Harriet avenue and Caldwell avenue, adopted by the Board of Estimate and Apportionment on June 15, 1911, and filed in the offices of the County Clerk at Jamaica October 17, 1911, and that of the Borough President, October 23, 1911, and in the office of the Counsel to the Corporation of The City of New York on or about the same date, and upon "Plan altering the lines and grades of that portion of Sections No. 27 and 36 of the final maps of the Borough of Queens, bounded by Woodhaven avenue, Penelope street, Burford street and Jupiter avenue," adopted by the Board of Estimate and Apportionment June 29, 1911, and filed in the offices of the County Clerk at Jamaica, December 8, 1911, and that of the Borough President, December 9, 1911, and in the office of the Counsel to the Corporation of The City of New York on or about the same date.

The Board of Estimate and Apportionment on the 9th day of February, 1911, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

Beginning at a point on the prolongation of a line midway between Marion avenue and Penelope street, as these streets are laid out westerly from Woodhaven avenue, distant 100 feet westerly from the westerly line of Juniper avenue, the said distance being measured at right angles to Juniper avenue, and running thence eastwardly along the said line midway between Marion avenue and Penelope street and along the prolongations of the said line to the intersection with the prolongation of a line midway between Marion avenue and Penelope street as these streets are laid out easterly from Fleet street; thence northeastwardly along the said line midway between Marion avenue and Penelope street and along the prolongation of the said line to a point distant 100 feet southwesterly from the southwesterly line of Austin street; thence southeastwardly and parallel with Austin street to the intersection with the prolongation of a line midway between Omega street and Penelope street; thence northeastwardly along the said line midway between Omega street and Penelope street, and along the prolongations of the said line to the intersection with the centre line of Omega street as this street is laid out northeasterly from Queens boulevard; thence eastwardly along the said centre line of Omega street to a point distant 100 feet northeasterly from the northeasterly line of Queens boulevard, the said distance being measured at right angles to Queens boulevard; thence southeastwardly and parallel with Queens boulevard to the intersection with the prolongation of a line midway between Penelope street and Hackett place; thence southwestwardly along the said line midway between Penelope street and Hackett place, and along the prolongations of the said line to a point distant 100 feet southwesterly from the southwesterly line of Austin street, the said distance being measured at right angles to Austin street; thence southeastwardly and always distant 100 feet southwesterly from and parallel with the southwesterly line of Austin street, to a point midway between Penelope street and Modjeska street; thence southwestwardly along a line midway between Penelope street and Modjeska street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Penelope street and Lowell avenue; thence westwardly along the said line midway between Penelope street and Lowell avenue, and along the prolongations of the said line to the intersection with a line parallel with Juniper avenue and passing through the point of beginning; thence northwardly along the said line parallel with Juniper avenue to the point or place of beginning.

Dated New York, April 23, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a23,m3

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 POYER STREET, from Maurice avenue to Barnwell street, in the Second Ward, Borough of Queens, 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 Queens, in the Borough of Queens, in The City of New York, on Saturday, the 4th day of May, 1912, at the opening of the 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 by The City of New York, in fee, for the use of the public, to all the lands and premises with the buildings thereon and the appurtenances thereto belonging, required for the opening and extending of Poyer street, from Maurice avenue to Barnwell street, in the Second Ward, Borough of Queens, in The City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point formed by the intersection of the northerly line of Maurice avenue with the prolongation of the southwesterly line of Poyer street, said point being distant 31.61 feet southeasterly from the intersection of the northwesterly line of Corona avenue with the southwesterly line of Poyer street.

Running thence northwesterly for 1,097.30 feet along the southwesterly line of Poyer street and prolongation thereof to the prolongation of the northwesterly line of Barnwell street.

Thence northeasterly deflecting to the right 90 degrees for 19.77 feet along the prolongation of the northwesterly line of Barnwell street to the northerly line of South Railroad avenue.

Thence easterly deflecting to the right 25 degrees 4 minutes 20 seconds for 44.41 feet along the northerly line of South Railroad avenue to the northeasterly line of Poyer street.

Thence southeasterly deflecting to the right 64 degrees 55 minutes 40 seconds for 1,117.57 feet along the northeasterly line of Poyer street and prolongation thereof to the northerly line of Maurice avenue.

Thence westerly for 71.61 feet along the northerly line of Maurice avenue to the prolongation of the southwesterly line of Poyer street, the point or place of beginning.

Poyer street, extending from Barnwell street to Maurice avenue, in the Second Ward, Borough of Queens, City of New York, is shown upon Section No. 19 of the final maps of the Borough of Queens, adopted by the Board of Estimate and Apportionment on June 17, 1910, and filed in the offices of the County Clerk at Jamaica and that of the Borough President on August 23, 1910, and in the office of the Counsel to the Corporation of The City of New York.

The Board of Estimate and Apportionment on the 4th day of May, 1911, duly fixed and determined the area of assessment for benefit in this proceeding as follows:

Beginning at a point on the southerly property line of the Long Island Railroad where it is intersected by a line bisecting the angle formed by the intersection of the prolongation of the northeasterly line of Poyer street and the southwesterly line of Broadway, as these streets are laid out between Dongan street and St. James street, and running thence southeastwardly along the said bisecting line to the intersection with the northerly line of Maurice avenue; thence southwardly at right angles to Maurice avenue a distance of 170 feet; thence westwardly and parallel with Maurice avenue to the intersection with a line at right angles to Maurice avenue and passing through a point on its southerly side where it is intersected by a line bisecting the angle formed by the intersection of the prolongations of the southwesterly line of Poyer street and the northeasterly line of Queens boulevard; thence northwardly along the said line at right angles to Maurice avenue to its southerly side; thence northwestwardly along the bisecting line last described to the intersection with the southerly property line of the Long Island Railroad; thence eastwardly along the said property line to the point or place of beginning.

Dated New York, April 23, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a23,m3

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 opening and extending of THIRTEENTH AVENUE (although not yet named by proper authority), from Jackson avenue to Flushing avenue, in the First Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held for the hearing of motions, at the County Court House, in the Borough of Brooklyn, in The City of New York, on the 6th day of May, 1912, at 10 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel or by any other person having any interest in said proceeding, as to his qualifications to act as a Commissioner of Estimate in the above-entitled proceeding.

Dated Borough of Manhattan, New York, April 22, 1912.

JOHN T. ROBINSON, W. J. HAMILTON, ATHELSTAN VAUGHAN, Commissioners of Estimate and Assessment.

WALTER C. SHEPPARD, Clerk. a22,m2

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 ANDREWS STREET (although not yet named by proper authority), between Mount Olivet avenue and the Long Island Railroad, in the Second Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, Second Department, bearing date the 16th day of April, 1912, and duly entered and filed in the office of the Clerk of the County of Queens on the 18th day of April, 1912, Patrick J. Mara was appointed a Commissioner of Estimate and the Commissioner of Assessment in the above entitled proceeding in the place and stead of John J. Trapp, deceased.

Notice is further given that, pursuant to the said order, the said Patrick J. Mara will attend at a Special Term for the hearing of motions of the Supreme Court of the State of New York, Second Department, to be held at Trial Term, Part I., at the County Court House in the Borough of Queens, in The City of New York, on the 6th day of May, 1912, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel or by any other person having any interest in said proceeding, as to his qualifications to act as a Commissioner of Estimate in the above-entitled proceeding.

Dated New York, April 22, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a22,m2

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 TWELFTH AVENUE (although not yet named by proper authority), from Jackson avenue to Flushing avenue, in the First Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, Second Department, at a Special Term thereof, to be held for the hearing of motions at the County Court House in the Borough of Brooklyn, in The City of New York, on the 3d day of May, 1912, at 10 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 Queens, there to remain for and during the space of ten days, as required by law.

Dated Borough of Manhattan, New York, April 19, 1912.

B. FRANK WOOD, THEODORE F. ARCHER, CLINTON T. ROE, Commissioners of Estimate and Assessment.

WALTER C. SHEPPARD, Clerk. a19,30

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 MADDEN STREET, between Skillman avenue and Borden avenue, in the First Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN that by an order of the Supreme Court of the State of New York, Second Department, bearing date the 11th day of April, 1912, and duly entered and filed in the office of the Clerk of the County of Queens on the 15th day of April, 1912, Harry R. Gelwicks was appointed a Commissioner of Estimate in the above-entitled proceeding in the place and stead of Daniel F. Shea, resigned.

Notice is further given that, pursuant to the said order, the said Harry R. Gelwicks will attend at a Special Term for the hearing of motions of the Supreme Court of the State of New York, Second Department, to be held at Trial Term, Part I., at the County Court House, in the Borough of Queens, in The City of New York, on the 1st day of May, 1912, at the opening of the Court on that day or as soon thereafter as counsel can be heard thereon, for the purpose of being examined under oath by the Corporation Counsel or by any other person having any interest in said proceeding as to his qualifications to act as a Commissioner of Estimate in the above-entitled proceeding.

Dated New York, April 18, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a18,29

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 FIFTIETH STREET, from Astoria avenue to Polk avenue; and FIFTY-FIRST STREET, from the bulkhead line of Flushing Bay to a point 100 feet south of Polk avenue, and from Corona avenue to Queens boulevard, in the Second Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN THAT BY AN order of the Supreme Court of the State of New York, Second Department, bearing date the 11th day of April, 1912, and duly entered and filed in the office of the Clerk of the County of Queens on the 15th day of April, 1912, Luke Otten was appointed a Commissioner of Estimate in the above entitled proceeding in the place and stead of William J. Hamilton, resigned.

Notice is further given that pursuant to the said order the said Luke Otten will attend at a Special Term for the hearing of motions of the Supreme Court of the State of New York, Second Department, to be held at Trial Term, Part I., at the County Court House, in the Borough of Queens, in the City of New York, on the 1st day of May, 1912, at the opening of

the Court on that day or as soon thereafter as Counsel can be heard thereon for the purpose of being examined under oath by the Corporation Counsel, or by any other person having any interest in said proceeding as to his qualifications to act as a Commissioner of Estimate in the above entitled proceeding.

Dated New York, April 18, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York. a18,29

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 ROBINSON STREET, from Bedford avenue to New York avenue, and WINTHROP STREET, from Nostrand avenue to Remsen avenue, 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 29th day of April, 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, April 17, 1912.

JOHN M. ZURN, DAVID J. HOGAN, JOHN H. ELLIOTT, Commissioners of Estimate; JOHN M. ZURN, Commissioner of Assessment.

EDWARD RIEGELMANN, Clerk. a17,27

SECOND JUDICIAL DEPARTMENT, COUNTY OF KINGS.

In the matter of acquiring title by The City of New York to certain lands and premises situate at the southeast corner of COURT AND JORALEMON STREETS, 156 feet 9 inches and extending 156 feet southerly on the easterly side of Court street, in the Borough of Brooklyn, City of New York, duly selected according to law as a site for a municipal building.

PURSUANT TO THE STATUTES IN SUCH case made and provided, notice is hereby given that it is the intention of the Corporation Counsel of The City of New York to make application to the Supreme Court at a Special Term for the hearing of motions to be held at the County Court House in the Borough of Brooklyn, in the City of New York, on the 26th day of April, 1912, at the opening of Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointments of Commissioners of Estimate and Appraisal in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title by The City of New York to certain lands with the buildings thereon and the appurtenances thereto, situate at the southeast corner of Court street and Joralemon street and extending 156 feet 9 inches southerly on the easterly side of Court street, in the Borough of Brooklyn of The City of New York, in fee simple absolute; the same to be converted, appropriated and used according to law for the purposes of a municipal building.

Said land and premises so to be acquired are bounded and described as follows:

Beginning at a point at the intersection of the southeasterly corner of Joralemon street and Court street and running thence easterly 24 feet 7 inches, more or less, to the land of The City of New York; running thence southerly along the land of The City of New York 160 feet 9 inches, more or less, to other land of The City of New York: thence running westerly along the land of The City of New York 25 feet 11 inches, more or less, to Court street; thence running northerly along the easterly side of Court street 156 feet 9 inches, more or less, to the point or place of beginning.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, City of New York.

Dated New York April 15, 1912. a15,25

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 STANLEY AVENUE, from Louisiana avenue to Fountain avenue, in the Twenty-sixth Ward, Borough of Brooklyn, 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 2d day of May, 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, April 19, 1912.

JAMES H. McCABE, JAMES A. NOLAN, Jr., JAMES E. FAY, Commissioners of Estimate; JAMES H. McCABE, Commissioner of Assessment.

EDWARD RIEGELMANN, Clerk. a19,30

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 UNION STREET, from Washington avenue to Bedford avenue, and from Rogers avenue to New York avenue; PRESIDENT STREET, from Classon avenue to Bedford avenue; CARROLL STREET, from Washington avenue to Albany avenue, and CROWN STREET, from Washington avenue to Albany avenue (excluding the land in each of the foregoing streets occupied by the Brooklyn and Brighton Beach Railroad), in the Ninth and Twenty-fourth Wards, 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 2d day of May, 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, April 19, 1912.

THEODORE L. FROTHINGHAM, EDWARD H. MADDOX, EDWARD KELLY, Commissioners of Estimate; THEODORE L. FROTHINGHAM, Commissioner of Assessment.

EDWARD RIEGELMANN, Clerk. a19,30

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 GATES AVENUE (although not yet named by proper authority), from Woodward avenue to Fresh Pond road, in the Second Ward, Borough of Queens, City of New York, as amended by an order of the Supreme Court, dated the 17th day of October, 1910, and entered in the office of the Clerk of the County of Queens on the 19th day of October, 1910, so as to conform to the lines of said Gates avenue as shown upon Sections 15, 16 and 29 of the final maps of the Borough of Queens, as adopted by the Board of Estimate and Apportionment on the 21st day of May, 1909, and approved by the Mayor on the 4th day of June, 1909.

NOTICE IS HEREBY GIVEN THAT THE final report of the Commissioners of Estimate and Assessment in the above-entitled matter will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Term thereof, Part I., to be held at the Queens County Court House, Long Island City, in the Borough of Queens, in The City of New York, on the 26th day of April, 1912, at the opening of Court on that day; and that the said final report has been deposited in the office of the Clerk of the County of Queens, there to remain for and during the space of five days, as required by law.

Dated Borough of Manhattan, New York, April 19, 1912.

MORRIS L. STRAUSS, FRANKLIN W. VAIL, Commissioners

WALTER C. SHEPPARD, Clerk. a19,24

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 for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of NEWPORT AVENUE, from Lincoln avenue to Adirondack boulevard; ADIRONDACK BOULEVARD, from Newport avenue to Neponsit avenue, and NEPONSIT AVENUE, from Adirondack boulevard to the easterly boundary line of Seaside Park, in the Fifth Ward, Borough of Queens, 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, in The City of New York, on the 25th day of April, 1912, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and of 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, with the buildings thereon and the appurtenances thereto belonging, required for the opening and extending of Newport avenue, from Lincoln avenue to Adirondack boulevard; Adirondack boulevard, from Newport avenue to Neponsit avenue, and Neponsit avenue, from Adirondack boulevard to the easterly boundary line of Seaside Park, in the Fifth Ward, Borough of Queens, City of New York, being the following described lots, pieces or parcels of land, viz.:

Newport Avenue.

Beginning at a point formed by the intersection of the southwesterly line of Lincoln avenue with the southeasterly line of Newport avenue;

Running thence southwesterly for 4,490.50 feet along the southeasterly line of Newport avenue to the northeasterly line of Adirondack boulevard;

Thence northwesterly deflecting to the right 90 degrees for 70 feet along the northeasterly line of Adirondack boulevard to the northwesterly line of Newport avenue;

Thence northeasterly deflecting to the right 90 degrees for 4,490.50 feet along the northwesterly line of Newport avenue to the southwesterly line of Lincoln avenue;

Thence southeasterly for 70 feet along the southwesterly line of Lincoln avenue to the southeasterly line of Newport avenue, the point or place of beginning.

Adirondack Boulevard.

Beginning at a point formed by the intersection of the southeasterly line of Neponsit avenue with the northeasterly line of Adirondack boulevard;

Running thence southwesterly for 80 feet along the southeasterly line of Neponsit avenue to the southwesterly line of Adirondack boulevard;

Thence northwesterly deflecting to the right 90 degrees for 710.06 feet along the southwesterly line of Adirondack boulevard to the northwesterly line of Newport avenue;

Thence northeasterly deflecting to the right 90 degrees for 80 feet along the northwesterly line of Newport avenue to the northeasterly line of Adirondack boulevard;

Thence southeasterly for 710.06 feet along the northeasterly line of Adirondack boulevard to the southeasterly line of Neponsit avenue, the point or place of beginning.

Neponsit Avenue.

Beginning at a point formed by the intersection of the northwesterly line of Neponsit avenue with the southwesterly line of Adirondack boulevard;

Running thence southeasterly for 60 feet along the southwesterly line of Adirondack boulevard to the southeasterly line of Neponsit avenue;

Thence southwesterly deflecting to the right 90 degrees for 1,880.19 feet along the southeasterly line of Neponsit avenue to the easterly boundary line of Seaside Park;

Thence northwesterly deflecting to the right 90 degrees for 60 feet along said easterly boundary line of Seaside Park to the northwesterly line of Neponsit avenue;

Thence northeasterly for 1,880.19 feet along the northwesterly line of Neponsit avenue to the southwesterly line of Adirondack boulevard, the point or place of beginning.

Newport avenue, Adirondack boulevard and Neponsit avenue are shown on "Map establishing the lines and grades of Newport avenue, from Lincoln avenue to Adirondack boulevard; Adirondack boulevard, from Newport avenue to Neponsit avenue, and Neponsit avenue, from Adirondack boulevard to Seaside Park, in the Fifth Ward, Borough of Queens, City of New York," which map was adopted by the Board of Estimate and Apportionment on the 14th day of March, 1912, and filed in the office of the Clerk of the County of Queens, in the office of the President of the Borough of Queens and in the office of the Corporation Counsel of The City of New York on the 2d day of April, 1912.

The Board of Estimate and Apportionment on the 14th day of March, 1912, duly fixed and determined the area of assessment for benefit in this proceeding, as follows:

Beginning at a point on a line midway between Columbus avenue and West End avenue, where it is intersected by the prolongation of a line midway between Newport avenue and Bayside drive, as these streets adjoin Oxford avenue, and running thence southwardly along the said line midway between Columbus avenue and West End avenue to the intersection with the prolongation of a line midway between Newport avenue and Washington avenue, as these streets adjoin Columbus avenue; thence westwardly along the said line midway between Newport avenue and Washington avenue and along the prolongations of the said line, to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Newport avenue and the northerly line of Washington avenue, as these streets adjoin Oxford avenue; thence westwardly along the said bisecting line to the intersection with a line midway between Southampton avenue and Ostend avenue; thence southwardly along the said line midway between Southampton avenue and Ostend avenue to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Washington avenue, the said distance being measured at right angles to Washington avenue; thence westwardly along the said line parallel with Washington avenue to the intersection with a line midway between Seminole street and Dakota street; thence northwardly along the said line midway between Seminole street and Dakota street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the southerly line of Neponsit avenue and the northerly line of Washington avenue, as these streets adjoin Bannock boulevard; thence westwardly along the said bisecting line to the intersection with a line distant 100 feet westerly from and parallel with the easterly boundary line of Seaside Park, the said distance being measured at right angles to Seaside Park; thence northwardly along the said line parallel with the easterly boundary line of Seaside Park to the intersection with the prolongation of a line midway between Neponsit avenue and Newport avenue, as these streets adjoin Seminole street; thence eastwardly along the said line midway between Neponsit avenue and Newport avenue and along the prolongations of the said line to the intersection with a line midway between Seminole street and Dakota street; thence northwardly along the said line midway between Seminole street and Dakota street to the intersection with the prolongation of a line midway between Newport avenue and Bayside drive, as these streets adjoin Oxford avenue; thence eastwardly along the said line midway between Newport avenue and Bayside drive and along the prolongations of the said line to the point or place of beginning. (The lines of the streets hereinbefore referred to which have not been incorporated upon the City plan are intended to be those as in use or as commonly recognized.)

Dated New York, April 13, 1912.

ARCHIBALD R. WATSON, Corporation Counsel, Hall of Records, Borough of Manhattan, New York City. a13,24

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 and the sidewalks and curb in front of said buildings, extending within the described area shall be torn down and removed from the premises. None of the dirt, debris or waste resulting from demolition shall be allowed to remain on the premises, except old mortar or plaster only, which may be left, but not higher at any point than two feet below the curb opposite that point. The exterior walls and their foundations shall be taken down only to a plane whose elevation shall be the level of the curb in front of the building. Where there is no curb the elevation of the surrounding ground shall be considered curb level. All wells, cesspools, sinks, etc., existing on the property must be filled to the level of the surrounding ground with clean earth.

The purchaser at the sale shall also withdraw and remove all abandoned water taps and old service mains, and in place thereof cause to be inserted a brass plug in the main water pipe in the street, in compliance with the rules and regulations of the Department of Water Supply, Gas and Electricity, and furnish the Department of Finance with a certificate from the Department of Water Supply, Gas and Electricity that this has been performed.

The purchaser at the sale shall also remove all house sewer connections to the main sewer in the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers 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 building.

Failure to remove said buildings, appurtenances, or any part thereof, within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the 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, beamholes, 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 other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a Department, chief of a Bureau, deputy thereof, or clerk therein, or other officer of The City of New York is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in The City of New York, or of a guaranty or surety company duly authorized by law to act as surety, and shall contain the matters set forth in the blank forms mentioned below.

No bid or estimate will be considered unless as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The certified check or money should not be inclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally upon the presentation of the bid or estimate.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City.

The contract must be bid for separately.

The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of the City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by the City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel can be obtained upon application therefor at the office of the Department for which the work is to be done. Plans and drawings of construction work may also be seen there.