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## DEPARTMENT OF WATER SUPPLY.

### Third Annual Report of the Department of Water Supply, City of New York, 1900.

DEPARTMENT OF WATER SUPPLY—COMMISSIONER'S OFFICE,  
Nos. 13 TO 21 PARK ROW,  
NEW YORK, March 2, 1901.

Hon. ROBERT A. VAN WECK, Mayor.

DEAR SIR—In compliance with section 457 of the Greater New York Charter, I have the honor to present the following report of the public business transacted by the Department of Water Supply for the year 1900:

#### BOROUGH OF MANHATTAN AND THE BRONX. THE CROTON WATERSHED.

##### Rainfall and Storage.

Although the records of the rain-gauges kept by the Department at the Boyd's Corner Reservoir, the Middle Branch Reservoir and the Croton Dam show an average rainfall for the year of 47.7 inches, which is very nearly up to the average for the past thirty-five years, the year 1900 must be classed as a dry year in its effect on the City's water supply. For this there are two reasons:

First—In the preceding year, 1899, the rainfall was 2.29 inches less; at the beginning of 1900 the storage reservoirs were drawn down to about one-third of their capacity; the drafts upon the stored water had to be continued throughout the month of January, and in the spring the soil was comparatively dry and capable of absorbing a larger proportion of the rainfall than usual.

Second—Nearly all the rains of spring, summer and autumn came in brief, heavy freshets, with long intervals of dry and hot weather, leaving the soil in no condition to feed the streams during these intervals, and creating brief periods of overflow and waste, alternated by long periods of drought. As a consequence, there were only 122 days during the year when the natural flow of the Croton river was capable of delivering the needed daily supply through the aqueduct, and for the larger part of these times the rush of water from freshets forced a large proportion of the flow over the Croton Dam into the Hudson river to an aggregate quantity of 49,000,000,000 gallons. On 243 days of the year the flow of the river had to be supplemented by drafts on the storage reservoirs, amounting in the aggregate to 35,500,000,000 gallons, which is 88 per cent. of the entire storage capacity in the Croton watershed.

The conditions which obtained in 1900, as above stated, add great weight to the reasons given in my report for 1899, derived from the experience of that year, for the necessity of making immediate additions to the storage capacity in the Croton watershed. The time when the Cornell Dam and Reservoir, in course of construction under the direction of the Aqueduct Commissioners, will become available is too distant to admit of non-action in this matter at the present time. With this view, the Department has made the plans for a new reservoir of 9,000,000,000 capacity on the Cross river branch of the Croton; the Board of Public Improvements approved the map of the land to be acquired for this purpose more than a year ago; the Board of Estimate and Apportionment gave its approval early in 1900 for a bond issue of \$300,000 to pay for the land, but the concurrent action of the Municipal Assembly has not yet been obtained. This concurrent action and the appointment and installation of Commissioners of Appraisal are necessary to give the Department possession of the land, so as to enable it to proceed with measures for the construction of the dam and reservoir. Meantime, I have recently also applied to the Board of Estimate and Apportionment for the necessary bond issue for the work of construction, estimated at \$980,000.

#### SUPPLY AND CONSUMPTION OF CROTON WATER.

The Croton water supply is always managed to meet the full and most liberal requirements of the population, the industries and the commerce of the Borough of Manhattan. Yet it is a remarkable and unusual fact that the average consumption for 1900 shows an increase of only 2,375,000 gallons over that for 1899, whereas the increase in 1899 over 1898 was 30,000,000 gallons per day, and in the preceding years the annual increase ranged from 15,000,000 to 25,000,000 gallons per day.

The following are the figures:

##### Average Daily Consumption in 1900.

	Gallons.
First quarter.....	263,000,000
Second quarter.....	342,500,000
Third quarter.....	260,000,000
Fourth quarter.....	256,000,000

	Gallons.
Average for the year.....	255,375,000
Average for 1899.....	253,000,000

Increase—1900 over 1899..... 2,375,000

#### THE BRONX AND BYRAM RIVER WATER SUPPLY.

The rainfall for the year, as recorded by the rain-gauges at the Kensico Reservoir, was 47.68 inches for the year 1900, which is quite equal to the average since the introduction of the Bronx river supply. The unfavorable condition described as prevailing in the Croton watershed, however, obtained here in aggravated form. Several years ago the consumption of water in the Borough of The Bronx had reached the full capacity of the watersheds under more favorable meteorological conditions than those which have obtained for the past two years, and within that time the consumption has repeatedly exceeded the incoming supply, with the consequence that the Rye Ponds and Kensico Reservoirs on the Bronx river and the Byram River Reservoir, which had been depleted by drafts in 1899, were not refilled by the rains and melted snow of the first four or five months of 1900. With these precarious conditions, the Department had to face the additional demands upon the water service created by a hot and dry summer and a constantly increasing population. The excess of demand and consumption over a diminished available supply culminated toward the close of the year in almost entire depletion of the reservoirs. The depth of water in the Williamsbridge Reservoir was lowered 29 feet, and the pressures in the distributing mains were reduced proportionately. On the lower grounds, in the densely built up section of the borough, the water failed to rise to the upper stories. On higher grounds the supply was almost cut off during the busy hours of the day, though a fair supply could be obtained at night. On the advent of freezing weather, when the people on the lower grounds, who still had fair and constant water supply, began the pernicious and apparently irrepressible practice of keeping their faucets open day and night to prevent freezing in their pipes, unmindful of the discomfort and distress which they brought on their neighbors on higher grounds, the supply absolutely ceased in some of the houses on the heights.

Forewarnings of these unfortunate conditions had been given for the past three years in quarterly and annual reports of the Department, and in my communications to the Board of Public Improvements and the Board of Estimate and Apportionment, asking for funds and authority to build and operate a high-service pumping station at Jerome Park, with mains leading into the general distributing system, whereby the water supply for the borough could be more than doubled by pumping from the Aqueduct. The two boards responded to these requests with reasonable promptitude, but the Municipal Assembly withheld its concurrent action until the 5th of this month, February, 1901. At least two years must yet elapse before this pumping station and plant, with large mains to the distributing system, can be completed and put in operation, and in the meantime recourse must be had to temporary expedients to give partial relief.

Although a recital of the several measures taken in this direction will lead up to the present date in 1901, I deem it not improper to give it in this report for the year 1900.

Near the close of October, a temporary pumping plant was installed to pump 500,000 gallons of water per day from the old Croton Aqueduct into the mains west of the Aqueduct, to supply houses on Kingsbridge Heights and Marble Hill. This service was subsequently extended around the Jerome Park reservoir to the east of the Aqueduct.

On November 20, I addressed a communication to the Municipal Assembly, asking the adoption of a resolution under section 184 of the City Charter, to authorize the issue of Special Revenue Bonds to the amount of \$80,000, for the installation and operation of a temporary pumping plant at the old Croton Aqueduct, near Van Hill road, to pump from five to ten million gallons of water per day into the distributing mains in Bronx Borough, and asked at the same time, on account of the urgency of the measure and the imperative necessity for prompt relief to the people of The Bronx, that I be authorized to proceed without the delays involved in a contract by public letting under section 419 of the City Charter. The assembly authorized the bond issue in meeting of February 5, 1901, but required that the measure be carried out by contract under section 419 of the Charter. The contract and specifications are now in the hands of the bidder, and under the most favorable circumstances three weeks will yet elapse before work can be commenced under it.

In the second week of February, 1901, two small pumping engines of the contractor for the construction of the Jerome Park Reservoir, Mr. John B. McDonald, were put in operation to pump water from the Aqueduct into the Bronx distributing system. On the 10th ult. (February) a larger pump of Mr. McDonald's began to pump water from the Aqueduct for the same purpose.

These temporary measures, now in operation, add about 4,800,000 gallons of water in the supply in The Bronx, but they are far short of giving adequate relief throughout the distributing system.

Since the Byram river supply was added to that from the Bronx river, in 1896 and 1897, a normal supply of 20,000,000 gallons per day has been received and distributed in the Borough of The Bronx up to August, 1900, when, in consequence of the conditions heretofore described, the supply was reduced to 19,000,000 gallons, in September to 17,000,000 gallons, and in October and November to 14,000,000 gallons. By more favorable conditions of rainfall it became possible in December to increase it to 15,000,000 per day. The average daily supply for this year was 18,220,000 gallons.

Surveys are in progress for an additional reservoir on the Bronx river, and for an additional pipe conduit thence to the distributing system in Bronx Borough, whereby it will become possible to make a considerable increase in the supply from the Bronx and Byram watersheds, and to make sufficient addition to the storage capacity to avoid a recurrence of the exhaustion of the reserve supply in the reservoirs in dry seasons.

#### ACCIDENTS AND WORK CONDUCT.

The work of maintenance on the eight divisions of the Old and New aqueducts, including Croton Lake and Dam and the Central Park reservoirs, has been of the usual character—building and repairing fences, repairing embankments and masonry, keeping buildings, slopes in proper repair, grading and sodding aqueduct grounds, etc., etc. The maintenance force has also taken care of lands, buildings, fences and roads adjacent to the storage reservoirs in the Croton watershed. The New Aqueduct has continuously been used, without accident or interruption, to convey the entire water supply for the Borough of Manhattan. A comparatively small flow of water has passed through the Old Aqueduct to supply water required in the construction of the Cornell Dam, at Sing Sing Prison, in the construction of the Jerome Park Reservoir, and to furnish the water for the auxiliary supply in Bronx Borough by temporary pumping plants, as described in a foregoing part of this report.

The Bronx River Conduit, and the ground over and adjoining it, as well as the two storage reservoirs on Bronx river, the Byram River Reservoir and Conduit, the Williamsbridge Reservoir, all adjacent grounds and all appurtenances of the Bronx and Byram Systems have been kept in proper condition by a regular maintenance force.

#### DISTRIBUTING SYSTEM.

During the year the following subdivisions were laid to extend the water service into new streets and to improve the service and enlarge the supply in the older sections of the city, where increased supply became necessary in consequence of progressive changes by the erection of large hotels, apartment houses, immense office buildings and large industrial and commercial establishments which have taken the place of former ordinary sized houses:

	Length in feet.
36-inch mains.....	14,200
24-inch mains.....	5,033
12-inch mains.....	15,400
6-inch mains.....	39,057
Total length of new mains.....	69,690

—equal to 11.31 miles.

In connection with these new mains, 134 new stop-cocks and 142 new fire-hydrants were placed.

In consequence of numerous changes of street grades in the Borough of The Bronx, old water-mains and stop-cocks had to be abandoned and replaced by new ones, to the following extent:

12-inch mains.....	1,454 linear feet, with 21 stop-cocks.
6-inch mains.....	17,304 linear feet, with 21 stop-cocks.
Total.....	18,758 feet of mains and 23 stop-cocks.

With this work, 49 new fire-hydrants were also substituted for old ones.

Work has been commenced under a contract for laying a 48-inch water-main from the Old Croton Aqueduct through Moshulu parkway to and down the Southern Boulevard as far as One Hundred and Seventy-third street. At this and other points this large main will be connected with the present distributing system of the lower and compactly built up section of The Bronx Borough, which will then be supplied directly from the aqueduct. It will enable the Department to use the entire Bronx and Byram river supply for improved service in the northerly sections and on the higher elevations in the borough; it will prevent the drawing down of the water in the Williamsbridge Reservoir, and it will thus prove a most valuable and effective measure of relief for the people of The Bronx, in advance of the completion of the High Service Pumping Station at Jerome Park. The work is a very large one, however, and will not be completed before October next.

#### Repairs in Distributing System.

This work is performed by six district repair companies and two repair companies at large, composed of mechanics and laborers and the necessary complement of teams and carts, each company being in charge of a competent foreman. The following is a summary of the principal items of work done by this repair force during the year:

790 new fire-hydrants set in place of old ones.
10,192 old fire-hydrants repaired.
161 new stop-cocks placed.
1,491 old stop-cocks repaired.
1,070 leaks in water-mains repaired.
1,128 leaking house service pipes shut off at mains.
7,429 linear feet new water-mains laid in place of defective mains.

In the course of the year 2,518 permits were issued to tap water-mains for new house connections with the water service, the taps being placed in the mains by skilled employees of this Department.

The present distributing system in Manhattan and The Bronx includes the following mains, stop-cocks and hydrants:

Diameter of Main and Stop-cock	Water Mains Linear Feet	Number of Stop-cocks	Number of Fire-hydrants
48-inch	13,781	79	Old style..... 5,117
36-inch	241,437	71	Double-nozzle..... 1,022
30-inch	43,471	7	Other improved styles 1,402
24-inch	44,517	13	
20-inch	145,421	943	
18-inch	17,110	33	
12-inch	1,001,145	2,155	
8-inch	6,029	37	
6-inch	1,115,715	5,110	
4-inch	28,318	156	
<b>Total</b>	<b>4,637,816</b>	<b>9,157</b>	<b>11,654</b>

Length of water-mains in miles, 107.04.

**High Service Supply in Manhattan.**

The present pumping machinery at the three high-service stations, West Ninety-eighth street, High Bridge, and Washington Bridge, has been for several years past and is now operated to its maximum capacity, except that one pumping engine is kept in reserve for use in case of accident to one or two of the others. Fifty million gallons of water are pumped every twenty-four hours and distributed through the high-service districts. Every intelligent resident of Manhattan knows that the growth in buildings and population, especially in large apartment houses, private hotels and fine residences, has of late years been greater in these districts than in any other section of Manhattan. The consequent new demands on the high-water service had to be met without a corresponding increase of resources. There has been no addition to the pumping power since 1897. The inevitable result has been loss of pressure in the high-service mains and in the elevation at which the water can be delivered in houses, giving rise to much dissatisfaction and many complaints.

To forestall or obviate these unsatisfactory conditions the late Department of Public Works in 1897 applied for funds for two additional large pumping engines for the Washington Bridge Station, and I renewed this application in 1898. As in other cases, the Boards of Public Improvements and of Estimate and Apportionment took favorable action within reasonable time. The consent action of the Municipal Assembly was not obtained until February 3, 1901. The money for making a contract by public letting for the two engines are now in progress. In the meantime a contract was empaneled last December for laying a 36-inch main in Broadway (double-track) from Ninetieth street to Eighty-sixth street, through that street and Transverse road No. 3, in Central Park, in Eighty-fourth street, and Park avenue to Eighty-second street, and through that street to Third avenue. This large main was laid for the special purpose of conveying the additional high-service supply from the new engines to the points where it is most urgently needed, especially the Yorkville district east of Central Park to midway between Third and Second avenues. The water-main cannot be brought into use until the new engines are built and fully installed.

**Delighting Fountains, etc.**

There are in Manhattan and The Bronx, under the charge of this Department, 3 ornamental drinking fountains, 12 drinking fountains for man and beast, 158 public horse troughs, and 14 Bartholomew hydrants, which are used by pressing down a lever. These being City property the Department keeps them in proper repair.

There are also 50 horse troughs placed and maintained at private expense, including the annual charge for water. The Society for Prevention of Cruelty to Animals has also placed and maintains, without charge for water, 6 drinking fountains for man and beast.

**Borough of Brooklyn.**

**RAINFALL IN THE WATERSHED.**

The rainfall for the past year, as recorded by the rain gauge kept at the Hempstead Reservoir, which is near the central point of the present watershed, was 41.43 inches, which is 2.17 inches less than in 1899, 9.79 inches less than 1898, and 4.98 inches less than in 1897, thus making 1900 the driest of four consecutive years.

For the two years, 1899 and 1900, the total rainfall was 85.05 inches; for the preceding two years, 1897 and 1898, it was 97.63 inches, exceeding the last two years by 12.58 inches.

By comparison 1899 and 1900 must therefore be classed as consecutive dry years. This, in connection with the most unfavorable distribution of the rainfall of 1900, which obtained in the Crown, Innes and Hyman watersheds, had the effect of diminishing the average daily yield for the Brooklyn water service by 3,242,000 gallons.

**SUPPLY AND CONSUMPTION.**

The average daily supply received at the Ridgewood Reservoir for 1900 was as follows:

	Gallons
Water flowing into the conduit from streams, etc., without pumping.....	42,468,800
Water pumped from ponds.....	7,537,432
Water pumped from driven wells.....	36,752,388
<b>Total daily yield.....</b>	<b>86,758,620</b>

The normal daily yield of the watershed under normal conditions is 90,000,000 gallons. The yield for 1900 therefore shows a reduction of 3,242,000 gallons. Considering the fact that a daily supply of 90,000,000 gallons is at the rate of a daily supply only of about 88 gallons per capita of the population of the Borough of Brooklyn, while the per capita rate in the Borough of Manhattan is over 120 gallons, it must be evident that the effect of the reduction in supply is most severe on the people of Brooklyn. The consumption exceeded the supply received from the watershed, the excess being made up by drafts upon the water stored in the reservoirs.

The drafts on stored water are shown by the following statement of the quantities of water contained in the reservoirs on January 1 and on December 31, 1900, respectively:

	Gallons
<b>January 1, 1900—</b>	
Ridgewood and Mount Prospect Reservoirs.....	239,155,800
Hempstead Storage Reservoir.....	94,000,000
	<b>333,155,800</b>
<b>December 31, 1900—</b>	
Ridgewood and Mount Prospect Reservoirs.....	171,279,000
Hempstead Storage Reservoir.....	34,939,000
	<b>206,218,000</b>
<b>Reduction.....</b>	<b>126,937,800</b>

Although these drafts on stored water amounted to an average of only 34,723 gallons per day, they reduced the depth of water in the Ridgewood and Mount Prospect Reservoirs to such an extent that there was very large loss of pressure in the delivery of the water through the distributing mains, causing much discomfort to the people, especially on the higher grounds.

The foregoing figures and statements do not include the pumping station, reservoir and plant at New Lots, formerly the property of the Long Island Water Supply Company, of which the City took possession about the close of April last. Since that time the supply from that plant has ranged from 3,891,000 gallons in May, and the maximum of 3,925,000 gallons in July to the minimum of 2,948,000 gallons in November, the average daily supply for the eight months being 3,724,005 gallons.

Several measures have been taken to reduce the consumption of water and prevent the complete exhaustion of the reserve supply in the reservoirs. The supply to shipping was cut off, as such supply could be obtained on the water-front of the Borough of Manhattan. The waste of water in public school buildings was checked. The supply to ornamental fountains and for street sprinkling was stopped. Finally, on September 27, the East New York avenue water-main, which was completed in 1896, and put in service in February, 1897, for the purpose of supplying the South Brooklyn section, was cut off, but was restored to service on December 12. In the meantime the supply from the Gravesend and New Utrecht Pumping Stations was increased by 600,000 gallons and 150,000 gallons respectively, with connections to the South Brooklyn distributing system to partially compensate for the loss of the supply through the East New York avenue main.

**Gravesend and New Utrecht Supply.**

The product of these two well stations has been materially increased last year over that for 1899, as shown by the following figures:

	1899. Gallons.	1900. Gallons.	Increase. Gallons.
<b>Gravesend Supply.</b>			
Maximum per day in winter.....	1,032,300	1,716,000	1,073,800
Maximum per day in summer.....	3,470,000	3,499,000	29,000
Daily average for the year.....	1,135,021	1,276,177	141,156
<b>New Utrecht Supply.</b>			
Maximum per day in winter.....	1,061,500	1,096,800	35,300
Maximum per day in summer.....	1,776,400	1,765,000	11,400
Daily average for the year.....	1,209,227	1,247,000	37,773

The average daily increase of supply in 1900 over 1899 is a little more than 22 per cent. for the Gravesend supply and nearly 60 per cent. for the New Utrecht supply.

As heretofore stated, a daily supply of about 600,000 gallons from the Gravesend plant, and 150,000 from the New Utrecht plant, was turned into the distributing mains in South Brooklyn for 76 days, from September 27 to December 12, during which time the East New York avenue main was shut off to prevent complete exhaustion of the reserve supply in the reservoirs of the Long Island watershed and Ridgewood system. It is a fortunate circumstance that these plants were capable of furnishing this partial substitute for the suspended supply through East New York avenue main.

**DISTRIBUTING SYSTEM.**

In extending the water of the Brooklyn water service into new streets and districts, in response to demands for water supply and fire protection to new houses, there were laid during the year 14,449 linear feet of 12-inch mains, 30,102 linear feet of 8-inch mains, and 8,257 linear feet of 6-inch mains; total, 52,808 linear feet, equal to ten miles, with 121 new water gates or stop-cocks and 119 additional fire-hydrants.

The distributing system now includes 606.71 miles of water-mains, 1,128 water gates or stop-cocks, and 6,480 fire-hydrants.

On January 1, 1900, there were 2,955 water meters in use, 550 additional meters were placed, making a total of 3,514 meters in use at the close of the year.

In the repairs and maintenance of water-mains, stop-cocks, fire-hydrants and drinking fountains an average force of 5 Foremen, 4 Assistant Foremen, 4 Inspectors, 3 Tappers, 54 Mechanics, 112 Laborers, 5 teams and 4 carts have been employed.

The following are the principal items of work performed during the year by this repair force:

- 520 leaks in water-mains repaired.
- 4,180 fire-hydrants repaired.
- 209 drinking hydrants repaired.
- 562 stop-cocks repaired.
- 148 leaky house-service pipes shut off.
- 1,913 new taps placed in mains for house service.

**PUMPING STATIONS.**

At Mount Prospect the pumping for the reservoir service has been increased by about 100,000 gallons per day for the entire year, and the same increase has been made in pumping for the tower (high) service. Owing to reduction of steam pressure in one of the boilers, enforced by a boiler inspector, and in the absence of authority and appropriation for a new boiler, it became necessary early last summer to resort to the temporary expedient of hiring a boiler. A contract for two new boilers, to take the place of four old ones, is now being advertised for public letting.

At the Ridgewood Station the last of the three engines furnished under a contract between the late Department of City Works and the firm of Henry R. Worthington, was tested in January, 1901. Like the first two it showed an excess of performance over the contract requirements. Under the terms of the contract the three engines have on this account earned a bonus of \$23,596.28. Much improvement in the working of the boilers has been effected by the installation of a ventilating fan in the boiler room. Details of other improvements at this station will be found in the Chief Engineer's report, hereto attached.

The ownership of the New Lots Pumping Station and plant, including distributing mains, passed from the Long Island Water Supply Company to the City in April of last year. The whole equipment of the station was then in poor condition, requiring exhaustive repairs, which are described in the Chief Engineer's report. In a foregoing part of this report is a statement of the daily water supply obtained and distributed from this plant.

At the Gravesend Pumping Station the older of the two engines has been in service fifteen years without thorough repairs, because both engines have to be operated constantly to pump the needed quantity of water supply. Improvements are also needed in the boilers to reduce the excessive coal consumption. The thirty driven wells at this station are in good condition.

At the New Utrecht Pumping Station a boiler inspector ordered such reduction of steam pressure in one of the boilers that it became necessary to make a contract for a new boiler in its place. By placing new suction pipes the yield from the driven wells and the open well has been considerably increased.

For details of the workings and condition of the pumping-stations along the conduit line, from Ridgewood to Massapequa, and the condition and yield of the driven wells, I beg to refer to the Chief Engineer's report. I will only state that the decision of the Court of Appeals in the Forbell case, which affirmed the judgment of a lower court against the City for damages to farm land in consequence of the operation of the pumping and well-station at Spring creek, near Ridgewood, is a serious embarrassment to the Department, and has resulted in the presentation of additional claims on account of other well-stations. This experience is discouraging in the project of adding to the Brooklyn water supply by driving and operating additional wells along the conduit line, and gives cause for the desire that the driven-well system may before long be supplanted by a surface gravity water supply.

**MAINTENANCE OF RESERVOIRS AND CONDUITS.**

At Mount Prospect the masonry of the high service tower was re-pointed; the inner lining of the reservoir was thoroughly repaired, defective brick being removed and replaced by new; a new iron fence, with a gate to the tower approach, has been nearly completed under contract; the cement walks on the grounds were repaired, but should be entirely regraded and repaved; the lower half of the reservoir embankment has been graded and sodded by contract, and a hedge planted at the foot of the embankment facing the Parkway and Prospect Park, which, after two or three years' growth, will be an effective barrier against intrusion on the reservoir and grounds.

At Ridgewood Reservoir Basin No. 1 was partially emptied in March to place a screen at the efflux chamber, and a box for measuring the depth of water. In the fall, when excess of consumption over a diminished supply had lowered the water almost to absolute depletion, the inner concrete slope of Basin No. 3 was thoroughly repaired.

The New Lots Reservoir of the Long Island Water Company's system, transferred to the City last April, is very much in need of thorough cleaning in consequence of the growth of algae and other organisms. To effect this, arrangements have been made to use the efflux force main without using the reservoir, when necessary or desirable, and as soon as a favorable opportunity arises, the reservoir will be emptied and cleaned. Plans have been made for direct connection from this reservoir to the New York avenue and Atlantic avenue mains of the Ridgewood system.

Minor repairs, described in the Chief Engineer's report, have been made at several ponds in the watershed. The main conduits from Massapequa to Millburn, and then to Spring creek, have performed their functions without interruption. Constant inspection and patrol of the streams and ponds tributary to the water supply have been maintained throughout the year.

**WORKS TO IMPROVE AND INCREASE THE WATER SUPPLY.**

**Filter Plants for Bayside and Springfield Ponds and Streams.**

When funds for the construction of these mechanical filter plants became available, the engineers of the Brooklyn water system prepared a form of contract and specifications, another form being also prepared by the Chief Engineer of the Department. The Engineer in charge of the Brooklyn water supply found objections to several provisions in the Chief Engineer's specifications, in which he was strongly supported by the Deputy Commissioner for the Borough of Brooklyn. After lengthy correspondence and deliberation, and in deference to the fact that the filter plants were to be built and operated under the immediate direction and supervision of the Brooklyn engineers, their draft of contract and specifications was ultimately adopted, and was approved as in form by the Corporation Counsel. Bids for the contract were invited by

advertisement, and were publicly opened on October 4, 1900. Prior to this the estimate of the engineers of the Brooklyn water service of the cost of the plants were successively increased from \$125,000 to \$137,800, and lastly to \$150,000. At the same time the estimate of the Chief Engineer was \$175,000.

Only two bids were received—From the Jewell Filtration Company, \$168,317; and from the American Filter Construction Company, \$185,000, each being accompanied by detail plans, descriptions, etc. They were submitted to the Deputy Commissioner and Engineers for Brooklyn for analysis and for their opinions. The latter bid was found irregular and to be rejected on that account. The other and higher bid was objected to as too high and somewhat in conflict with the Department specifications, though, as reported by the Engineers-in-Charge, proper plants might be constructed under it. As an alternative measure, he recommended the construction of filter beds, English system, by day's work, but the Corporation Counsel advised that, under the contract section of the City Charter, the work could only be done by contract at public letting, unless otherwise authorized by a three-fourth vote of all the members of each branch of the Municipal Assembly. The conclusion was finally reached to re-advertise for new bids under new specifications. Although these happenings and delays carried the whole subject over into the present year, I deem it proper to state in this report the result of the re-advertising and reletting.

Five bids were received, ranging from the lowest, \$164,250, to the highest, \$205,500. J. P. Crawford & Co. were the lowest bidders, and their bid is now in the hands of the Comptroller for his action as to the adequacy and sufficiency of the sureties thereon. The amount of the surety is \$50,000, and the limit of time for the completion and installation of the filter plants is seven months. Therefore, if the sureties are approved, and the contractors live up to the terms of the contract, a daily supply of about 8,000,000 gallons, which had to be discontinued in consequence of pollution, will again become available for the Brooklyn water service.

*Additional Pipe Conduit from Millburn to Spring Creek.*

This all-important addition to the Brooklyn water system is at last under contract, and satisfactory progress on the work has been made since the contract was awarded and executed, November 28 last. The six bids for the contract ranging from the lowest, \$870,397, to the highest, \$979,920.75, were received and opened on the 1st of November, Mr. William H. Masterson being the successful bidder. In a further part of this report will be found a recital of the efforts made and the successive action taken within the past three years to accomplish the execution of this great and much-needed work. The progress so far made justifies the prediction that the work will be completed within the contract time, eighteen months, beginning ten days after the execution of the contract by the contractor and the Commissioner, November 28, 1900. The Department will then be able to convey to Brooklyn an additional supply of twenty to twenty-five million gallons from the easterly section of the watershed, where it is now going to waste because the old brick conduit from Millburn to Spring creek is not capable of carrying it.

The experience of the past two years, and most particularly that of last year, has demonstrated in most forcible manner the urgent necessity for larger storage capacity in the Brooklyn water system. To this end surveys have been completed for a storage reservoir at East Meadow creek in the easterly section of the watershed. Surveys are also in progress and nearly completed for a large storage reservoir at Massapequa, and for a receiving reservoir at Forest Park. Plans and specifications have also been prepared for the practical reconstruction of the Millburn Reservoir, which was reported as practically completed, but was never accepted from the contractor and never used, because on a test it was found to leak at the rate of six per cent. of its contents in 24 hours.

The Department is only awaiting the final authorization of funds by bond issues and authorization of contracts to proceed with the construction of these reservoirs, which will remove for a considerable time the danger of complete exhaustion of the reserve supply, which has for several months past been, and is still imminent, and has only been prevented by drastic and disagreeable measures to curtail the consumption of water, with the effect of widespread discomfort among the people of Brooklyn.

LABORATORY WORK.

At the Laboratory, Mount Prospect, 2,707 samples of water were received during the year, on which there were made:

- 1,914 physical examinations,
- 690 complete chemical analyses,
- 763 partial chemical analyses,
- 853 microscopical examinations,
- 4,876 bacteriological examinations.

Tests were also made of 51 samples of coal, 43 samples of oil, 7 samples of asphalt and 18 samples of brick, which articles of supply are purchased and used in the operations of the water service.

The water samples included well water and surface water from every part of the Brooklyn water system, as well as from supplies furnished by private water companies in the boroughs of Brooklyn and Queens. None of them showed ingredients in sufficient quantity to affect the public health in the least. For full details of the results of the laboratory work I beg to refer to the report of the Chief Engineer.

BOROUGH OF QUEENS.

The public water supply from pumping plants and wells owned by the City and operated by this Department extends to the First Ward (Long Island City) and the Third Ward (villages of Flushing, College Point and Whitestone). The other three wards receive their supply from private water companies and from wells and springs on the homesteads.

For the First Ward the supply from the three pumping plants owned by the City has long ago been inadequate. Since June 4, 1898, it has been supplemented by a supply furnished under a contract made May 16, 1898, with the Citizens' Water Supply Company of Newtown, at the price of \$65 per one million gallons. In the course of three years past the average daily supply from this source had to be increased from 1,479,000 gallons in 1898 to 3,228,000 in 1899 and to 3,594,353 gallons in 1900. All this water is measured by four large meters at the points where it enters the City's system of distributing mains.

The following are the average daily quantities of water pumped and distributed from the several plants during the year 1900:

	GALLONS.	TOTAL GALLONS.
<b>First Ward—</b>		
Station 1.....	726,559	
Station 2.....	836,451	
Station 3.....	577,777	2,140,787
<b>Third Ward—</b>		
Flushing Station.....	694,302	
College Point Station.....	1,059,806	
Whitestone Station.....	280,348	2,034,456
Citizens' Water Supply Company.....		3,594,353
<b>Total.....</b>		<b>7,690,892</b>

The total average daily supply from the six public pumping stations for 1900 is 4,191,739 gallons, which is a decrease of 287,778 gallons from the average daily supply in 1899. The decrease is due to the unfavorable conditions of rainfall which obtained here as well as in the other boroughs.

In the latter part of the year there were many complaints from residents in the First Ward of the borough of loss of pressure in the delivery of the water through the mains and house-service pipes. The complainants generally attributed this to the very large consumption of water by factories, which, in proportion to the population, are very numerous in that ward. Some of the complainants asked that the water supply to these factories be shut off, but this would have been not only a violation of equity, as the factory owners receive and pay for the water through meters and at meter rate, but it would also have been a hardship to the hundreds or thousands of employees in the factories who would be thrown out of work.

There has been little improvement in the pumping and well stations in the First Ward, though frequent repairs were made from the limited annual appropriation. We are now in the fortunate position of having received by concurrent action of the Municipal Assembly and the Board of Estimate and Apportionment an appropriation of \$75,000, by issue of Special Revenue Bonds, for needed improvements to the several stations in the First Ward and for water-main extensions and connections, which will not only extend the water service to streets and avenues where such extensions are most urgently needed, but will also greatly improve the circulation and equitable distribution of the water supply in the First and Third Wards.

The following are the principal items of work performed during the year by the small force employed in the maintenance and repairs in the distributing system:

- 48 leaks in water-mains repaired,
- 44 stop-cocks repaired,
- 125 fire-hydrants repaired,
- 12 new stop-cocks placed,
- 22 new fire-hydrants placed,
- 21 new stop-cock boxes placed,
- 2,712 linear feet of water-mains relaid,
- 240 new taps for house services placed in mains.

*Reservoir at Tottenville.*

The small pumping plant owned by the City at Tottenville has been operated to the full capacity of the wells, furnishing an average daily supply during the year of 89,242 gallons.

Thirty-six additional taps for house-service pipes were placed in water-mains during the year.

Late in the year the Municipal Assembly gave its concurrence to a bond issue of \$100,000 to place four new driven wells at the Tottenville Station, but the authority for proceeding with the driving of the wells and the placing of connections with the pumping plant and mains is still pending.

RETROSPECT FOR THREE YEARS.

The unfavorable meteorological conditions of the past two years, followed by an abnormally dry winter season, have culminated in the boroughs of Brooklyn and The Bronx in the unfortunate situation heretofore described. They have not been paralleled in severity and duration since the years 1863 to 1872, and when we make comparisons with that period we must bear in mind that one-half of the present per capita rate of water consumption was then considered all-sufficient, and that the increase in this rate has grown up through new appliances, contrivances and habits in the use of water which were unknown to the general public thirty years ago, and which in time have become to be looked upon, and really are, necessities to health and comfort.

The situation of the last five months has evoked much unjust criticism of the administration of this Department, and, to show the injustice of it, I deem it pertinent to place on record in this report a chronological statement of the action of this Department in respect to important and permanent measures to preserve, improve and increase the public water supply, commensurate to the growing and necessary demands upon the water service, and of the action taken on the reports and requests of the Department, successively, by the Board of Public Improvements, the Board of Estimate and Apportionment, and the Municipal Assembly, whose concurrence, in the order named, is necessary to provide the means and authority to carry out the needed works and improvements.

It is proper to state at the outset that for nearly the whole year of 1898, the first of the existence of Greater New York and of the present City government, the danger of exceeding the constitutional limitation of the City debt was a barrier to the authorization and issue of additional City bonds for improvements.

The statement includes the boroughs of Manhattan, Queens and Richmond, as well as those of Brooklyn and The Bronx. The conditions concerning the water supply in the several boroughs differ only in the degree of present severity and immediate urgency of improvement. In the First and Third Wards of Queens the water supply has been insufficient from the beginning; the houses on elevated grounds will soon be absolutely without water service unless the supply is increased. In Manhattan the high service must be promptly increased to prevent severe discomfort to a considerable part of the population in a short space of time, and works which will require several years in building and completion, must be commenced with as little delay as possible to utilize the full capacity of the Croton watershed, 380,000,000 gallons per day. At the same time surveys for new sources of supply must be commenced at once and expeditiously prosecuted.

In the Borough of Richmond the present small pumping station and well plant must be enlarged to meet urgent demands on the water service.

STATEMENT OF ACTION ON VARIOUS WORKS AND IMPROVEMENTS.

MANHATTAN AND BRONX.

*Sanitary Protection of Water Supply.*

- January 6, 1898—Commissioner's report to Board of Public Improvements, calling for bond issue of \$500,000 to pay for lands and damages.
- January 24, 1898—Approved by the Board.
- January 24, 1899—Authorized by the Board of Estimate and Apportionment.
- July 18, 1899—Authorized by Municipal Assembly.
- December 27, 1899—Commissioner's report to Board of Estimate and Apportionment, calling for additional bond issue of \$300,000.
- February 1, 1900—Authorized by Board of Estimate and Apportionment.
- November 7, 1900—Authorized by Municipal Assembly.
- December 28, 1899—Commissioner's report to Board of Estimate and Apportionment, calling for bond issue of \$50,000 to fence in lands acquired for sanitary protection, and \$10,000 for clearing up the lands.
- January 18, 1901—Authorized by Board of Estimate and Apportionment.
- January 29, 1901—Authorized by Municipal Assembly.

*Construction Work.*

- January 11, 1895—Commissioner's report to Board of Public Improvements, calling for bond issue of \$500,000 for completion of Byram reservoir and for completion of White Pond reservoir, in the Croton watershed.
- October 19, 1898—Commissioner's requisition on Board of Estimate and Apportionment for the above.
- October 31, 1898—\$250,000 authorized by Board of Estimate and Apportionment.
- October 24, 1899—The same authorized by Municipal Assembly.

*Additional Pumping Engines for High Service Station at Washington Bridge.*

- January 10, 1898—Commissioner's report to Board of Public Improvements, calling for bond issue of \$110,000.
- October 5, 1898—Approved by the Board.
- May 19, 1899—Resolution of approval corrected.
- January 10, 1900—Authorized by Board of Estimate and Apportionment.
- February 5, 1901—Authorized by Municipal Assembly.

*Cross River Reservoir—Croton Watershed.*

- December 28, 1900—Commissioner's requisition on Board of Estimate and Apportionment for bond issue—\$300,000 for land, and \$980,000 for construction.
- January 18, 1901—In meeting of Board; laid over, awaiting opinion of Corporation Counsel, as to limitation of bond issues for water supply purposes.

THE BRONX.

*New High Service Pumping Station at Jerome Avenue.*

- December 15, 1898—Commissioner's report to Board of Public Improvements, asking for authority and bond issue, \$276,000.
- December 15, 1898—Approved by the Board.
- February 15, 1899—Authorized by Municipal Assembly, as to \$65,000 for pumping engines.
- February 27, 1899—Authorized by Board of Estimate and Apportionment as to \$65,000 for pumping engines.
- July 26, 1899—Authorized by Municipal Assembly and by Board of Estimate and Apportionment as to \$100,343 for foundations. Note—Foundations now completed.
- November, 1899—The Board of Estimate and Apportionment decided that applications for bond issues for improvements must come before, and be acted upon by that Board, and then submitted to the Municipal Assembly for concurrence. This necessitated re-adaptation and approval by the Board of Public Improvements in matters not already finally disposed of. In accordance therewith the following action was taken concerning the new High Service Station at Jerome avenue:
- December 21, 1899—Commissioner's requisition on Board of Estimate and Apportionment for \$103,000 for buildings; \$110,000 for pumping engines; \$30,000 for tank and stand-pipe.
- July 10, 1900—Authorized by Board of Estimate and Apportionment as to buildings, engines, tank and stand-pipe, \$203,000.
- February 7, 1901—The foregoing authorized by the Municipal Assembly.

*48-Inch Main from Aqueduct through Moshulu Parkway and Southern Boulevard to One Hundred and Seventy-third Street.*

- March 20, 1899—Commissioner's report to Board of Public Improvements, calling for bond issue of \$267,800.
- March 20, 1899—Approved by the Board.
- May 1, 1900—Authorized by Board of Estimate and Apportionment.
- October 9, 1900—Authorized by Municipal Assembly.
- December 12, 1900—Contract signed; work in progress.

48-inch Main from Aqueduct Westerly through Kingsbridge Section.

September 17, 1900—Commissioner's report to Board of Public Improvements for bond issue of \$150,000.

September 19, 1900—Approved by the Board.

October 1, 1900—Authorized by Board of Estimate and Apportionment.

Still pending in Municipal Assembly.

I may be permitted here to quote from my annual report for 1899, dated and transmitted March 17, 1900, a brief outline of the situation in the Borough of The Bronx, showing the extreme urgency of prompt and effective measures to increase the supply:

The consumption of water reached the limit of the present capacity of supply about three years ago, and even then the pressure in the distributing mains was not sufficient to deliver water above the first stories of the houses situated on high grounds, such as Fordham Heights, Woodlawn Heights and University Heights. The increase in population and buildings in the past three years has been enormous, far greater than in any other borough or section of the city. The corresponding increase in the demands upon the water surface produced the inevitable result of large and steady decrease in pressure in the distributing mains and in the elevation at which the water could be delivered in the houses. The houses on the high grounds were naturally the first to suffer from the decrease of pressure. At several periods of hot and dry weather, and for the last three months continuously, the consumption of water exceeded the daily supply received at the Williamsbridge Reservoir by several million gallons; the deficiency had to be made up by drawing down the depth of water in that reservoir fifteen feet, with the result of a corresponding loss of pressure in the distributing mains, and loss of elevation in the delivery of water in houses, amounting to two stories. At the close of the year the houses on the high grounds could not be supplied above the basement floors.

These conditions were forecast when, in September, 1897, the Commissioner of Public Works presented to the Board of Estimate and Apportionment plans and estimates prepared by the Chief Engineer of the Croton Aqueduct, now Chief Engineer of this Department, for the construction of a high service pumping station, to be fed from the Croton Aqueduct, with connections to the distributing mains, and requested the authorization of the necessary bond issue. The request was approved by this Department on September 19, 1898, and December 21, 1899, but so far only the funds required for the foundations of the pumping station have been granted, that work being now under contract and in progress. The completion of the pumping station and appurtenances will require from two to three years, and in the interim, those the difficulties already experienced will be aggravated beyond endurance, unless relief is obtained by speedier methods.

IRON PIPE.

Pipe Conduit from Millburn to Spring Creek.

January 13, 1898—Reports of Commissioner and Deputy Commissioner to Board of Public Improvements, calling, among other items, for bond issue of \$850,000 for pipe conduit.

January 12, 21 and 26, 1898—Subject discussed by the Board and laid over.

March 5, 1898—Opinion of Corporation Counsel that McVane contract of August 7, 1890, for 66-inch steel pipe conduit is not valid in absence of certificate of the Comptroller of the City of Brooklyn.

December 29, 1898—Commissioner's report to Board of Public Improvements, increasing estimate of cost and requisite bond issue to \$1,000,000, in consequence of rise in price of steel and labor.

January 11, 1899—Approved by the Board.

June 21, 1899—Commissioner's report to Board of Public Improvements in view of change in plan to a 48-inch iron pipe conduit, in consequence of difficulty of obtaining steel pipe and other reasons.

June 28, 1899—Approved by Board of Public Improvements.

November 29, 1899—Resolution of approval assented in conformity with Mayor's veto of ordinance passed by the Municipal Assembly.

May 1, 1900—Bond issue of \$1,000,000 authorized by Board of Estimate and Apportionment.

October 3, 1900—Authorized by ordinance of Municipal Assembly, approved by the Mayor.

November 28, 1900—Contract signed, and work now rapidly progressing.

Additional Pumping Engines and Improvements for Millburn Station.

January 12 and March 22, 1898—Reports of Commissioner and Deputy Commissioner to Board of Public Improvements, calling for bond issue of \$400,000.

March 23, 1898—Laid over.

March 21, 1899—Commissioner's further report to Board of Public Improvements, calling for \$100,000.

April 5, 1899—Approved by the Board.

July 10, 1900—\$75,000 for pumping engine authorized by Board of Estimate and Apportionment.

January 18, 1901—\$100,000 authorized by Board of Estimate and Apportionment, for coal-house, hoisting machinery, store-house, etc.

All pending in Municipal Assembly.

Filters at Baitless and Springfield Ponds.

May 24, 1899—Commissioner's report to Board of Public Improvements, calling for bond issue of \$125,000. Laid over in meeting of same date.

June 7, 1899—Approved by Board of Public Improvements.

December 28, 1899—Authorized by ordinance of the Municipal Assembly.

January 9, 1900—Vetoed by the Mayor on account of irregularity of procedure.

June 28, 1900—Letter from the Comptroller that balance in Brooklyn Water Construction Fund (about \$200,000) is applicable to this work.

October 4, 1900—First letting of contract; two bids received and rejected. (See previous part of this report.)

February 14, 1901—Second letting of contract; five bids received; the lowest accepted; contracts approved by the Comptroller, February 25, 1901.

Storage Reservoirs at Massapequa and East Meadow Creek.

December 27, 1900—Requisition on Board of Estimate and Apportionment for bond issue of \$1,200,000 for construction.

January 18, 1901—Authorized by the Board.

Now pending in Municipal Assembly.

Lands Required for New Conduit and for Pumping Stations and Reservoirs.

December 27, 1900—Requisition on Board of Estimate and Apportionment for bond issue of \$310,000.

January 18, 1901—Authorized by the Board.

Now pending in Municipal Assembly.

Improvements to Pumping Stations.

December 27, 1900—Requisition on Board of Estimate and Apportionment for bond issue of \$200,000.

January 18, 1901—Authorized by the Board.

Now pending in Municipal Assembly.

Forest Park Reservoir.

On advice of Corporation Counsel legislation is required to use part of the park for a reservoir. A proper bill is before the Legislature.

Flatbush Water-works Company—Acquisition by the City of Property and Plant.

November 1, 1899—Commissioner's letter to Corporation Counsel, asking advice as to method of procedure for acquisition.

March 6, 1900—Commissioner's further letter to Corporation Counsel, asking for advice.

April 6, 1900—Commissioner's letter to Board of Estimate and Apportionment, asking for authorization of bond issue of \$750,000.

June 8, 1900—Corporation Counsel's opinion, affirming right of acquisition, etc.

June 30, 1900—Commissioner's report to Board of Public Improvements, in favor of acquisition.

July 16, 1900—Further report of the Commissioner to the Board, with schedule of property.

July 25, 1900—Resolution of the Board, asking the Corporation Counsel to commence condemnation proceedings.

November 14, 1900—Report of Commissioner to Board of Public Improvements, with copy of opinion of Corporation Counsel to Board of Estimate and Apportionment and opinion to the Commissioner of Water Supply.

November 14, 1900—Resolutions of Board of Public Improvements, approving acquisition, and calling for action by Board of Estimate and Apportionment and Municipal Assembly.

Millburn Reservoir—Reconstruction.

March 22, 1898—Report of Commissioner and Deputy Commissioner to Board of Public Improvements, calling, among other items, for \$400,000 for this purpose.

May 1, 1900—Bond issue of \$500,000 authorized by Board of Estimate and Apportionment.

Now pending in Municipal Assembly.

QUEENS.

Additional Water-mains and Wells.

February 14, 1898—Commissioner's report to Board of Public Improvements, calling for bond issue of \$77,200 for this purpose.

March 20, 1899—Commissioner's report renewed.

June 26, 1900—Resolution of Board of Public Improvements, asking Board of Estimate and Apportionment to authorize bond issue.

October 12, 1900—Issue of \$75,000 special revenue bonds authorized by Municipal Assembly.

October 15, 1900—Authorized by Board of Estimate and Apportionment.

Improvements and Additions to Wells, Pumps, Buildings, Pumping Stations, etc.

February 19, 1901—Bond issue of \$100,000 authorized by Board of Estimate and Apportionment.

RICHMOND.

Additional Wells, etc., for Tottenville Pumping Station.

July 5, 1898—Commissioner's report to Board of Public Improvements, calling for bond issue.

December 5, 1898—Approved by the Board.

April 5, 1900—Commissioner's requisition on Board of Estimate and Apportionment for bond issue of \$40,000.

July 10, 1900—Bond issue of \$40,000, authorized by Board of Estimate and Apportionment.

November 15, 1900—Authorized by Municipal Assembly, with approval of the Mayor.

GRAND JURY PRESENTMENTS.

The Grand Jury for the County of New York, of November, 1900, made two presentments to his Honor, the Recorder: one in reference to alleged impurities in the Croton water supply; the other in reference to alleged irregularities in the accounts, and inefficiency or dishonesty of officers and clerks in the Bureau of Water Register for Manhattan and The Bronx. These presentments were transmitted to you, and by you referred to me with letters of December 5, from your Secretary.

I consider it appropriate to include the presentments, and my reports to you thereon, in full in this report, as follows:

DECEMBER 5, 1900.

Hon. WILLIAM DALTON, Commissioner of Water Supply, New York City.

DEAR SIR—I am directed by the Mayor to transmit to you for investigation and report in this office the enclosed duly attested copy of a presentment made by the Grand Jury in relation to the water supply of The City of New York, the same having been filed with the Clerk of the Court of General Sessions under date of November 30, 1900.

Very respectfully yours,  
(Signed) ALFRED M. DOWNES, Secretary to the Mayor.

I, Edward R. Carroll, Clerk of the Court of General Sessions of the Peace of the City and County of New York, held in and for the County of New York, do hereby certify that the annexed is a copy of a presentment of the Grand Jury now in file in the Clerk's office, and that the same has been compared by me with the original, and is a correct transcript therefrom and of the whole of such original.

Given under my hand and attested by the seal of the said Court this fourth day of December, in the year of our Lord one thousand nine hundred.

(Signed) EDWARD R. CARROLL.

Hon. JOHN W. GOSS, Recorder, Court of General Sessions.

SIR—in the discharge of its duty, the Grand Jury has felt it to be incumbent upon it to give careful attention to the question of the water supply of the city, and to ascertain if possible the cause of the existing objectionable conditions, what immediate remedies were available to correct them, and with a view to the future, what action should be taken to permanently secure a pure water supply.

The Grand Jury is fully alive to the vital importance of the water supply to the public, and therefore has given the matter a character of study and fully commensurate with its importance, and to this end summoned the Commissioner of Water Supply, Hon. William Dalton, and the Chief Engineer of the same Department, Mr. George W. Birdsall, for the purpose of eliciting facts as to the physical conditions of their respective official spheres.

In addition, the Grand Jury was impressed with the importance of securing expert knowledge from the medical standpoint, and therefore requested and obtained the testimony of Dr. Charles F. Roberts, Sanitary Superintendent, Department of Health, and of Dr. George F. Shady, the well-known specialist.

While in no way detracting from the importance of a pure water supply as a condition necessary to the public health, the Grand Jury was relieved by the preponderance of testimony to the effect that no immediate danger of typhoid fever existed or was imminent, although it was conceded that a long continuance of an impregnated water supply would be liable to produce disease.

The conclusions reached by the Grand Jury after careful consideration of the subject thus fully before them, are that the only effective and permanent means by which a remedy can be applied to existing evils, and the only means to insure pure water, consists in the adoption of a system of filtration, commensurate in all respects to the needs and wants of this great municipality.

Other cities have already recognized the importance of the filtration of their water supplies, and plants for this purpose are in a more or less advanced stage of installation in the cities of Washington, Atlanta, Philadelphia, Cincinnati, Pittsburg, Louisville and others.

Shall New York be behind other cities in adequate care for the health of its citizens?

In making this presentment the Grand Jury hereby urges the prompt consideration of this all-important matter upon the attention of the proper municipal authorities.

In recognition of the importance of the Grand Jury function, we earnestly urge our fellow-citizens to be united in their efforts and unrelenting in their demands for a pure water supply until the desired end is attained.

JOHN R. VAN WORMER, Secretary. JOHN P. FAURE, Foreman.

DECEMBER 10, 1900.

Hon. ROBERT A. VAN WYCK, Mayor.

DEAR SIR—I have the honor to acknowledge receipt of the letter of the 5th instant, from your Secretary, transmitting to me for investigation and report by your direction, an attested copy of a presentment made by the Grand Jury, in relation to the water supply of this City, and respectfully submit the following report:

The presentment deals with the quality of the water recently received from the Croton Watershed. It mentions the fact that myself and the Chief Engineer of this Department were summoned before the Grand Jury for the purpose of giving information on the subject, and that it obtained the testimony of Dr. Charles F. Roberts, Sanitary Superintendent of the Department of Health, and of Dr. George F. Shady thereon, and that the preponderance of testimony was to the effect that no immediate danger of typhoid fever existed or was imminent, though it was conceded that a long continuance of an impregnated water supply would be liable to produce disease. Its conclusions are that the only effective and permanent means by which a remedy can be supplied to existing evils and the only means to insure pure water, consists in the adoption of a system of filtration commensurate in all respects to the needs and wants of this great municipality, mentioning also measures undertaken to that end in the cities of Washington, Atlanta, Philadelphia, Cincinnati, Pittsburg, Louisville and others.

The subject thus presented is not a new one. It was under careful consideration in the years 1880 to 1883 by the Department of Public Works, which then had charge of the water supply, by the City Board of Health, and by experts and consulting engineers, resulting in the decision of building a new aqueduct large enough to carry all the water obtainable from the Croton Watershed and the necessary storage reservoirs to equalize the obtainable supply under different meteorological conditions. These investigations and considerations, which resulted in the creation of the Aqueduct Commission and the construction of the new Aqueduct and additional storage reservoirs, included quality as well as quantity of supply.

In the years 1890 to 1893 the question of quality of supply from the Croton Watershed was again the subject of special investigation by the State Board of Health and the City Board of Health, with the conclusion that the surest method of preserving the purity of the supply was to destroy all nuisances in the watersheds tending to the pollution of the water, the acquisition of lands along the streams, lakes and reservoirs to prevent further nuisances and pollution, and the enactment and enforcement of stringent rules and regulations of the State Board of Health.

In pursuance of these investigations and conclusions, the City has expended about five million dollars in the purchase of lands and the destruction of nuisances. Notwithstanding the fact that within the last few months the water received through the Croton Aqueduct has at times been disagreeable in taste, odor and appearance, there has as yet been no statement by any recognized scientific authority that it contained any ingredients dangerous or detrimental to health.

With your letter of December 6, 1899, you transmitted to me for examination and report a report made to the Board of Health by Dr. Charles F. Roberts, Sanitary Superintendent, in

which he recommended the adoption of measures to filter the entire supply from the Croton Watershed, and in my reply to you of December 22, 1899, I referred briefly to the measures above mentioned and carried out by co-operation of the Department of Public Works, the Aqueduct Commissioners, the State Board of Health and the City Board of Health, already herein mentioned, and stated that the Chief Engineer of this Department estimated the cost of the installation of filtering plants for the entire supply at not less than fifteen million dollars, with large expenditure for maintenance thereafter.

I expressed my readiness to exercise my official functions to carry out the wholesale filtration of the City's water supply if the City Board of Health would declare it necessary, and to that end I recommended that the report of the Sanitary Superintendent be referred back to that board for consideration and action.

I have not yet been advised of any further or conclusive action by that department or board on the subject, and I now reaffirm my readiness to exercise my official powers to the fullest extent to carry out any measures deemed necessary by the Board of Health to insure wholesome water supply to the people of this City at whatever cost.

The sanitary conditions of the water supply from the Croton, Bronx and Byram river watersheds differ in this respect from those of the water supplies of other cities where wholesale filtration has been deemed necessary and partially carried out, in that the supply is not polluted or subject to pollution at its sources, and is only subject to harmless, though disagreeable, changes in color, taste and odor which are caused by exceptional conditions of rainfall and temperature.

Considering the subject in all its aspects, I deem it the part of official prudence and duty to refrain from involving the City in an initial expenditure of fifteen millions of dollars, or more, and subsequent large annual expenditure for the installation and maintenance of filtration plants to filter the entire water supply from these sources without a definite expression from recognized and responsible scientific authority that it is needed for the health and comfort of the people of this City.

Very respectfully,  
(Signed) WILLIAM DALTON, Commissioner of Water Supply.

DECEMBER 5, 1900.

Hon. WILLIAM DALTON, Commissioner of Water Supply:

DEAR SIR—I am directed by the Mayor to transmit to you, for investigation and report in this office, the inclosed duly attested copy of a presentment made by the Grand Jury, in relation to the office of Water Register in this borough, the same having been filed with the Clerk of the Court of General Sessions, under date of November 30, 1900.

Very respectfully,  
(Signed) ALFRED M. DOWNES, Secretary to the Mayor.

I, Edward R. Carroll, Clerk of the Court of General Sessions of the Peace of The City and County of New York, held in and for the County of New York, do hereby certify that the annexed is a copy of a presentment of the Grand Jury now on file in the Clerk's office, and that the same has been compared by me with the original, and is a correct transcript therefrom, and of the whole of such original.

Given under my hand and attested by the seal of the said Court, this fourth day of December, in the year of our Lord one thousand nine hundred.

(Signed) EDWARD R. CARROLL.

To the Honorable Recorder:

The attention of the Grand Jury has been fondly called to an apparent lack of proper and effective methods in the conduct of the business of the office of the Water Register of this borough.

In many respects this is one of the most important bureaus of the municipal government, its operations having a direct and material bearing upon both the revenue and the economical use of the water supply. That adequate revenue and satisfactory administrative results are not now obtained is obvious. It is equally clear that the introduction into the management of the affairs of the Water Register's office of the system, thoroughness and competency, which would obtain under private or corporate direction, would insure an improvement which would be universally welcomed by citizens and taxpayers. The accounts of the office in question should be kept in such a way as to be easily understood; all persons using the water of the City should pay for it at a uniform price; all employees, from highest to lowest, should be capable and honest and should be held in rigid accountability for the performance of duty. It is only reasonable to expect that the water revenues of a growing City should show a yearly ratio of increase, which does not seem to have been the case of late.

So important and far reaching are the interests involved that it is the sense of the Grand Jury that a competent authority should speedily undertake a searching examination into the affairs of the Department of Water Supply with a view to the rectification of what appears to be a most unfortunate state of things.

JOHN P. FAURE, Foreman.

JOHN R. VAN WORMER, Secretary.

DECEMBER 16, 1900.

Hon. ROBERT A. VAN WYCK, Mayor:

DEAR SIR—I have the honor to acknowledge receipt of the letter of the 5th inst., from your Secretary, transmitting to me by your direction for investigation and report, an attested copy of a presentment made by the Grand Jury, in relation to the office of Water Register for the boroughs of Manhattan and The Bronx, which presentment was filed with the Clerk of the Court of General Sessions, under date of November 30th ult., and in response to this request I present the following, taking up the criticisms or charges in the order in which they are made in the presentment.

First—"That adequate revenue and satisfactory administrative results are not now obtained is obvious."

I do not know from what knowledge or information the Grand Jury made this deduction. The books and records of the Bureau of Water Register show that for the three years, 1895, 1896 and 1897, the revenue, including returns in arrears, which are liens on property, amounted to \$12,522,507.32, and that for the years 1898 and 1899 and the year 1900 to November 30, it amounted to \$13,337,871.70, which is an increase of \$1,815,364.38, or nearly nine per cent., without counting the receipts for the month of December, 1900, or the returns of arrears for the year. If the receipts for December and the returns of arrears for the year 1900, estimated on the returns of preceding years, were added the increase of revenue for three years, beginning January 1, 1895, over the preceding three years, would be more than ten per cent., which is certainly greater than the increase in population for the same period, and I consider that the percentage of increase in population should be taken as approximately a correct estimate or judgment of what should be the increase of revenue from the water service. The conclusion "that adequate revenue and satisfactory administrative results are not now obtained" must, therefore, be drawn at random or from fallacious premises.

Second—"It is equally clear that the introduction into the management of the affairs of the Water Register's office of the system, thoroughness and competency which would obtain under private or corporate direction, would insure an improvement which would be universally welcomed by citizens and taxpayers."

In respect to this vague charge, I make a general denial that there is any lack of system, thoroughness and competency, and must reserve specific answers unless specific complaints or charges are presented. I must say, however, that persons passing judgment upon the conduct of a bureau like that of the Water Register, should always bear in mind that the system and personnel are regulated by special laws, which must be strictly obeyed by the head of a department and the head of a bureau, and that such restrictions do not apply in the conduct of the affairs of private individuals or corporations.

Third—"The accounts of the office in question should be kept in such a way as to be easily understood."

The accounts of the office or bureau can easily be understood by any person of proper capacity who will devote the necessary time and labor for examination. The Commissioners of Accounts have under your direction made a complete and minute investigation of the accounts of the bureau for the fiscal year ended April 30, 1899. In their report to you, dated April 18, 1900, of which you transmitted to me a copy, they made certain recommendations for improvement in the system which had been handed down from preceding administrations, covering twenty-five years or more, and these recommendations have been scrupulously carried out.

Fourth—"All persons using the water of the City should pay for it at a uniform price."

The implied charge that any person or persons are favored in respect to the rate or charge for water supply over others should not be made without specific statements or allegations. This Department and the Bureau of Water Register make no difference in this respect in favor or against any person, being governed by a uniform scale of charges from which there is no variation. Under the present City Charter the scale of charges is enacted by ordinance of the Municipal Assembly, on the recommendation of the Board of Public Improvements, and no option or latitude is left either to the Commissioner of Water Supply, the Water Registrar, or any official of the Bureau of Water Register.

Fifth—"All employees, from highest to lowest, should be capable and honest, and should be held to rigid accountability for the performance of duty."

The Civil Service laws and regulations control the subject of capability of officers and employees in the municipal service. I believe that the officials and employees of the Bureau of Water Register will bear comparison as to capability with any equal number of officials or employees in any other public or private concern; and as to the question of honesty, I have to say that under the system in force dishonesty could not be practiced without speedy discovery, and that it would not be tolerated for a moment when discovered.

Sixth—"It is only reasonable to expect that the water revenues of a growing city should show a yearly ratio of increase, which does not seem to have been the case of late."

The records and reports of the Department show that there has been a yearly ratio of increase in the water revenue at about the same percentage which has obtained for many years past.

Seventh—"It is the sense of the Grand Jury that a competent authority should speedily undertake a searching examination into the affairs of the Department of Water Supply, with a view to the rectification of what appears to be a most unfortunate state of things."

I have never feared and have never had reason to fear investigation by competent authority, into the affairs of this Department, and I court such investigation, in order to meet and refute, and as far as possible, to silence imputations and charges made by irresponsible parties on mere assumption or actual misrepresentations.

Very respectfully,  
(Signed) WILLIAM DALTON, Commissioner of Water Supply.

REVENUE FROM THE WATER SERVICE FOR 1900.  
BOROUGH OF MANHATTAN AND THE BRONX.

Table with 2 columns: Description of revenue items and Amount. Items include Regular and extra water rents, Penalties on water rents, Water supplied through meters, etc.

Summary table for Manhattan and The Bronx showing Total collections and Amounts returned in arrears.

Total revenue for 1900: \$4,980,027 07

Comparison with 1898 and 1899.

Comparison table showing Total collections for 1900 and 1898.

Increase, 1900 over 1898: \$377,030 31

Total revenue, including arrears, 1900: \$4,980,027 07

Total revenue, including arrears, 1898: 4,459,404 47

Increase, 1900 over 1898: \$520,622 60

Total collections, 1900: \$4,418,085 88

Total collections, 1899: 4,094,433 47

Increase, 1900 over 1899: \$323,652 41

Total revenue, including arrears, 1900: \$4,980,027 07

Total revenue, including arrears, 1899: 4,633,589 44

Increase, 1900 over 1899: \$346,437 63

BOROUGH OF BROOKLYN.

Table with 2 columns: Description of revenue items and Amount. Items include Regular and extra water rents, Water supplied through meters, Penalties on water rents, etc.

Summary table for Brooklyn showing Total receipts and Revenue collected in 1899.

Increase, 1900 over 1899: \$46,314 18

Revenue collected in 1900: \$2,093,868 00

Revenue collected in 1898: 1,928,581 83

Increase, 1900 over 1898: \$165,286 17

BOROUGH OF QUEENS.

Table with 2 columns: Description of revenue items and Amount. Items include Regular and extra water rents, Penalties on water rents, Permits to tap water-mains, etc.

Summary table for Queens showing Total collections and Returned in arrears—liens on property.

Total revenue for 1900: \$120,669 79

Decrease from revenue for 1899: \$43,553 58

Increase over revenue for 1898: \$14,978 82

The decrease of revenue for 1900 from that for 1899 is due to the lower rates in the new scale of water rents since May 1, 1900.

BOROUGH OF RICHMOND.

Table with 2 columns: Description of revenue items and Amount. Items include Regular water rents.

Summary table for Richmond showing Increase over 1899.

Increase over 1898: \$1,954 33

Total revenue for all boroughs for 1900: \$7,197,833 36

Increase over 1899: \$345,797 43

Increase over 1898: \$723,743 06

Under section 473 of the Greater New York Charter, the Municipal Assembly, on the recommendation of the Board of Public Improvements, passed an ordinance, approved April 10, 1900, establishing a new and uniform scale of water rents for all the boroughs, which came into effect May 1, 1900, the beginning of the present fiscal year, as to water charges. Under advice from the Corporation Counsel, the differential water rates which existed in the several boroughs at the time of consolidation, January 1, 1898, had to remain in force until May 1, 1900.

The subject was brought before the Board of Public Improvements by a report from this office, dated September 23, 1898, and amended by further report of November 1, 1898. It was discussed at subsequent meetings of the Board in 1898, 1899 and 1900. At the meeting on December 20, 1899, it was referred for report to a committee of three: the President of the Board, the Comptroller and the Commissioner of Water Supply. At the meeting of January 17, 1900, the President and the Comptroller presented a majority report, embodying a uniform scale on the basis of the charges then in force in the boroughs of Manhattan and The Bronx, and the Borough of Brooklyn, respectively, including the higher Brooklyn frontage rates, and the higher old New York rates for water-closets and other extras.



the preparation by the Department, and approval by the Boards above mentioned and the Municipal Assembly, of plans, estimates, contracts and specifications for the construction of dams, reservoirs, conduits and appurtenances; the approval of the forms of contracts and specifications by the Corporation Counsel; the advertising and public letting of the contracts; the approval of contractors' sureties by the Comptroller; the execution of the contracts by the parties thereto; and, finally, the actual prosecution and completion of the works by the contractors. For works of the character and magnitude of those required for the water service of Greater New York five years is the minimum of time consumed from the initial steps to actual completion. There is immediate need of an increase of 250,000,000 gallons to the daily supply, as quickly as it can be secured, and within the next seven years the increase of supply should be 500,000,000 gallons. The selection of new sources and plans for new works should, therefore, be made on a scale to admit of gradual development and expansion, and the ultimate result of adding 500,000,000 gallons per day to our present water supply.

The Chief Engineer of the Department estimates the necessary expenditure from bond issues for this purpose at \$10,000,000 per year for seven years, making a total of \$70,000,000, of which \$5,000,000 should at once be made available.

As soon as the concurrence of the Municipal Assembly in the bond issue of \$100,000 authorized by the Board of Estimate and Apportionment for surveys for new sources of supply is obtained, engineering parties will be organized and assigned to that work.

Further details of the transactions of the Department for 1900 will be found in the following documents, hereto appended:

- "A"—Statement of appropriations, funds and expenditures.
- "B"—Report of the Chief Engineer.
- "C"—Report of the Water Registrar for Manhattan and The Bronx.

Very respectfully,  
WILLIAM DALTON, Commissioner of Water Supply.

DOCUMENT "A."

Statement Showing Titles of Appropriations, Boroughs, Requisitions during 1900 on Appropriations of 1899, Appropriations and Transfers of 1900, Requisitions during 1900, Liabilities and Balances on December 31, 1900, also Titles of Trust and Special Accounts, Requisitions during the Year, and Liabilities.

TITLE OF APPROPRIATION	BOROUGH.	REQUISITIONS IN 1900 ON APPROPRIATIONS OF 1899.	APPROPRIATIONS WITH TRANSFERS, 1900.	REQUISITIONS 1900.	LIABILITIES.	BALANCE, DECEMBER 31, 1900.
Aqueduct—Repairs and Maintenance	Manhattan and The Bronx	\$27,447 16	\$27,500 00	146,972 74	\$5,024 00	\$2 47
Aqueduct—Repairs and Maintenance—Salaries	"		32,800 00	29,754 31		17 42
Bronx River Works—Maintenance and Repairs	"	4,371 87	29,021 00	11,246 03	14,770 00	41 00
Bronx River Works—Maintenance and Repairs—Salaries	"		2,000 00	2,000 00		
Contingencies—Department of Water Supply	"	2,000 00	2,000 00	2,015 74	1,664 40	43
For Additional Fire Hydrants	"	4,331 21	25,500 00	27,050 00	7,719 47	
Laying Croton Pipes	"	109,023 46	106,000 00	18,408 00	12,709 00	2,699 00
Laying Croton Pipes—Salaries	"	114 71	13,800 00	13,000 00	146 00	200 00
Public Drinking Hydrants	"	137 47	1,600 00	1,640 00	371 47	100 00
Rental of Fire Hydrants	"		10,600 00		10,000 00	
Repairing and Renewal of Pipes, Suspensions, etc.	"	26,118 71	46,450 00	26,740 40	45,000 00	24
Salaries—General Administration	"		19,000 00	16,900 00		
Salaries—Central Office	"	20 88	22,000 00	21,312 00	20 28	60 40
Salaries—Bureau of Chief Engineer	"		17,100 00	17,414 27		31 70
Salaries—Bureau of Water Registrar	"	395 40	39,000 00	39,347 34	400 00	6,720 00
Water Supply for the Twenty-fourth Ward	"	841 90	10,300 00	10,377 48	8,112 24	2,265 24
Salaries—Office of Deputy Commissioner	Brooklyn		15,700 00	16,071 77		1,371 77
Salaries—Office of Chief Engineer	"		7,450 00	7,480 00		
Salaries—Office of Water Registrar	"	700 00	6,000 00	7,000 00		1,300 00
Salaries—Laboratory	"		6,000 00	6,000 00		600 00
Contingencies	"	2,750 00	5,500 00	5,510 74	1,000 00	134 24
Rentals of Fire Hydrants	"	15,280 00	10,000 00	22,300 00	7,000 00	
Salaries—Office of Deputy Commissioner	Queens		15,500 00	15,500 00		47
Salaries—Pumping Stations	"	15 00	14,400 00	14,180 71		21 29
Maintenance and Repairs of Water Pipes, etc.	"	1,600 00	1,400 00	1,000 00	1,400 00	800 00
Pumping Stations—Fuel and Supplies	"	11,404 41	24,400 00	8,511 00	16,000 00	90
Rentals of Fire Hydrants	"	19,814 00	15,000 00	16,400 00	21,000 00	157 00
Supplying Water to Long Island City	"	14,155 40	14,100 00	14,800 00	5,614 72	
Contingencies	"	810 24	1,800 00	700 00	100 00	110 00
Salaries—Office of Deputy Commissioner	Richmond		6,700 00	6,444 48		255 52
Pumping Stations—Salaries and Supplies	"	913 49	6,200 00	6,200 00	540 00	38 00
Contingencies	"	41 00	300 00	242 00	433 33	140 00
Rentals of Fire Hydrants	"	19,797 77	20,000 00	19,000 00	17,000 00	2,711 44
<b>Totals</b>		<b>\$326,574 31</b>	<b>\$1,444,014 47</b>	<b>\$1,712,215 30</b>	<b>\$5,817,174 20</b>	<b>\$1,000 77</b>

NOTE.—Requisitions were drawn during the year in payment of liabilities of 1898 and 1899, as follows: Aqueduct—Repairs and Maintenance, 1898, \$4,419.55; of 1899, \$27,447.16; Laying Croton Pipes, 1898, \$114.71; of 1899, \$109,023.46; Repairing and Renewal of Pipes, 1898, \$114.71; Salaries—Water Registrar, 1898, \$395.40; Pumping Stations—Fuel and Supplies, 1898, \$11,404.41; Rentals of Fire Hydrants, Queens, 1898, \$15.00; Contingencies, Richmond, 1898, \$41.00; and Rentals of Fire Hydrants, Richmond, 1898, \$19,797.77.

TITLES OF TRUSTS AND SPECIAL ACCOUNTS.	BOROUGH.	REQUISITIONS DURING THE YEAR.	LIABILITIES ESTIMATED.	TITLES OF TRUST AND SPECIAL ACCOUNTS.	BOROUGH.	REQUISITIONS DURING THE YEAR.	LIABILITIES ESTIMATED.
Additional Water Fund	Manhattan and The Bronx	\$285,082 35		Water Supply—Maintenance and Repairs—Materials and Supplies	Brooklyn	\$100,447 29	\$42,014 45
Croton Water Fund	"	53,540 00	\$254,819 50	Water Supply—Distribution and Repairs—Salaries and Wages	"	104,200 00	
Fire Hydrant Fund	"	1,049 00		Water Supply—Distribution and Repairs—Materials and Supplies	"	25,250 00	\$9,910 77
Water-main Fund, No. 1	"	15,444 58	1,400 00	Stand Pipe Fund, Flushing	Queens	4,074 00	
Water-main Fund, No. 2	"	48,292 52	129,464 00	College Point Water Works Fund	"	5,020 00	
Water-main Fund, Borough of Brooklyn	Brooklyn	\$1,912 58	19,087 47	Revenue Bond Fund for Laying Water-mains, Queens	"	1,464 00	6,377 84
Water Construction	"	118,320 00	896,457 05				
Water Supply—Maintenance and Repairs—Salaries and Wages	"	467,934 35		<b>Totals</b>		<b>\$1,600,947 24</b>	<b>\$6,392 24</b>

DOCUMENT "B."

DEPARTMENT OF WATER SUPPLY—OFFICE OF CHIEF ENGINEER,  
Nos. 13 TO 21 PARK ROW,  
NEW YORK, January 15, 1901.

WILLIAM DALTON, Esq., Commissioner of Water Supply:

DEAR SIR—With this please find a statement of the operations of this Bureau for the quarter ending December 31, 1900, and a summary for the year 1900.

SUMMARY OF EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1900.

Additional Fire Hydrants	\$7,696 82
Additional Water Fund	237,848 01
Aqueduct Repairs and Maintenance	73,266 58
Aqueduct Repairs and Maintenance—Salaries	8,058 20
Bronx River Works, Maintenance and Repairs	14,973 24
Bronx River Works, Maintenance and Repairs—Salaries	975 00
Bureau of Chief Engineer—Salaries	4,364 64
Contingencies	900 61
Croton Water Fund	10,444 28
Laying Croton Pipes	23,246 71
Laying Croton Pipes—Salaries	4,803 21
Public Drinking Hydrants	430 50
Repairing and Renewal of Pipes, etc.	69,606 64
Water Supply for the Twenty-fourth Ward	3,725 43
Water Main Fund No. 2	477 69
Water Main Fund No. 3	35,807 09
Rental of Fire Hydrants—Queens	12,380 00
Rental of Fire Hydrants—Richmond	6,030 00
<b>Total</b>	<b>\$514,040 65</b>

SUMMARY OF EXPENDITURES FOR THE YEAR 1900.

Additional Fire Hydrants	\$23,762 73
Additional Water Fund	241,400 00
Aqueduct Repairs and Maintenance	273,251 60
Aqueduct Repairs and Maintenance—Salaries	33,070 76
Bronx River Works, Maintenance and Repairs	37,151 12
Bronx River Works, Maintenance and Repairs—Salaries	3,000 00
Bureau of Chief Engineer—Salaries	17,414 27
Contingencies	2,737 09
Croton Water Fund	65,595 40
Fire Hydrant Fund	1,040 00
Judgment Fund	1,611 80
Laying Croton Pipes	241,143 40
Laying Croton Pipes—Salaries	49,053 40
Public Drinking Hydrants	962 24
Repairing and Renewal of Pipes, etc.	270,474 59
Water Supply for the Twenty-fourth Ward	11,349 18
Water Main Fund No. 2	15,444 52
Water Main Fund No. 3	58,020 52
Rental of Fire Hydrants—Queens	40,713 00
Rental of Fire Hydrants—Richmond	39,570 67
<b>Total</b>	<b>\$1,395,929 07</b>

Contracts Made, Completed and Unfinished during the Year 1900.

LOCATION OF WORK.	CONTRACTOR.	DATE OF CONTRACT.	ESTIMATED COST.	DATE OF FINAL ESTIMATE.	AMOUNT OF FINAL ESTIMATE.	AMOUNT PAID 1900.
Improvement of White Pond	Twinnam & Palmer	Dec. 8, 1897	\$48,837 50	Sept. 1, 1901	\$51,754 69	\$9,964 59
Furnishing and laying mains, Fort George avenue	M. Lipps	Feb. 2, 1898	76,745 20	July 5, "	82,801 42	14,875 23
Furnishing and laying mains across Harlem river	F. Froh	Sept. 4, "	15,000 00	Jan. 25, "	19,485 30	19,443 03
Furnishing, etc., boilers, Ninety-seventh street	Evans, Admirall Company	Dec. 20, "	41,353 00	Feb. 28, "	41,333 00	4,793 16
Laying mains, Fort Washington avenue	Henry Lipps, Jr.	Feb. 23, 1899	25,091 20	Jan. 8, "	26,038 53	1,797 72
Furnishing tapping cocks, etc.	A. P. Smith Manufacturing Company	Apr. 7, "	2,670 00	Apr. 14, "	2,670 00	985 40
Furnishing and delivering double-nozzle hydrants	Kennedy Valve Manufacturing Company	" 14, "	7,475 00	Feb. 8, "	7,475 00	1,767 13
Furnishing stop-cocks, etc.	Fox & Engel	" 17, "	6,400 50	May 15, "	6,400 50	3,485 42
Repairs to Aqueduct, Sing Sing, etc.	Frawley & Rooney	May 15, "	17,127 70	"	"	"
Furnishing stop-cocks, etc.	Kennedy Valve Manufacturing Company	" 17, "	2,564 50	Apr. 2, 1900	2,564 50	2,564 00
Furnishing cast-iron water-pipes, etc.	Warren Foundry and Machine Company	" 19, "	15,494 00	Mar. 10, "	14,440 00	8,697 73
Furnishing cast-iron water-pipes, etc.	Theo. F. Tom	" 20, "	27,760 00	Feb. 10, "	27,000 81	11,891 24
Furnishing and laying mains, Longwood avenue	Henry Lipps, Jr.	Oct. 31, "	45,127 00	Sept. 10, "	46,000 00	28,618 14
Building foundations, High Service Works	A. C. Gildersleeve	" 25, "	21,050 00	"	"	40,994 00
Furnishing and laying mains, Boulevard, etc.	William F. Norton	Jan. 3, 1900	116,664 00	"	"	15,007 00
Furnishing cast-iron water-pipes, etc.	Warren Foundry and Machine Company	" 11, "	11,176 50	"	"	21,183 34
Furnishing and delivering coal, etc.	N. L. Stokes	Feb. 19, "	37,800 00	"	"	28,827 59
Laying mains in Brook avenue, etc.	J. Corwell, Jr.	May 14, "	11,723 21	Aug. 26, 1900	10,754 94	26,711 11
Furnishing and delivering cast-iron water-pipes, etc.	M. J. Drummond	" 25, "	10,681 70	"	"	"
Furnishing and delivering double-nozzle hydrants	S. N. Leary	" 29, "	11,271 00	"	"	1,729 88
Furnishing tapping cocks, etc.	Kennedy Valve Company	June 17, "	3,450 00	"	"	1,161 45
Furnishing stop-cocks, etc.	J. Fox & Co.	" 21, "	11,661 00	"	"	8,657 95
Furnishing stop-cocks, etc.	Kennedy Valve Company	Nov. 15, "	15,000 00	"	"	"
Furnishing and laying mains, Mosholu parkway	Dulleman & Smith	Dec. 12, "	25,107 50	"	"	"

STORAGE RESERVOIRS.

The Croton river has furnished a full supply to the Aqueduct for 13 days during the quarter.

Storage Drawn during Quarter.

	Gallons.
Middle Branch Reservoir	570,000,000
East Branch Reservoir	3,950,000,000
West Branch Reservoir	5,200,000,000
Titons Reservoir	2,130,000,000
Muscolu Reservoir	1,180,000,000
Total during quarter	12,180,000,000

Storage Drawn during 1900.

	Gallons.
Middle Branch Reservoir	3,400,000,000
East Branch Reservoir	9,900,000,000
West Branch Reservoir	14,000,000,000
Titons Reservoir	4,800,000,000
Muscolu Reservoir	3,400,000,000
Total for year 1900	35,500,000,000

Work is being made for a storage reservoir on the Bronx river, a conduit from same to Borough of The Bronx and for the improvement of the Channel Way of the East Branch of the Croton river.

RAINFALL.

	Inches.				Total Year.
	October.	November.	December.	Total Quarter.	
Boyd's Branch Reservoir	6.73	4.91	2.58	14.22	49.56
Middle Branch Reservoir	4.41	2.68	3.47	10.56	49.90
Kanisco Reservoir	3.39	6.26	2.64	12.29	47.68
Croton Dam	3.32	3.24	2.08	8.64	43.65
Jerome Park Reservoir	3.59	4.31	2.15	10.05	40.60

257 days no water ran over Croton dam during 1900.

BRONX AND BYRAM RIVER SUPPLY.

As the storage reservoirs on the Bronx and Byram rivers did not fill during the early part of the year, the increased use in the Borough of the Bronx soon depleted all of the available supplies, lowering the distributing reservoir at Williamsbridge 29 feet, and depriving a large number of houses on the higher grounds of water, especially during the day; a temporary pumping plant was placed at the Old Croton Aqueduct and Van Cortlandt avenue, and water pumped from the aqueduct to the mains on the west side of Jerome Park reservoir, thus supplying a portion of buildings on high ground. The moneys for this work are all expended, and as the rains have not as yet improved the supply only in temporary manner, a requisition has been made on the

Municipal Assembly and the Board of Estimate and Apportionment to issue revenue bonds to the amount of \$80,000 to put up a temporary plant to pump 10,000,000 gallons per day from the Old Croton Aqueduct into the mains supplying the borough.

A contract has been made to lay a 48-inch main from the old aqueduct, through Mosholu parkway, to Southern Boulevard, to supply the lower portions of this borough from the Croton Aqueduct, and the contractor has commenced work.

WATER MAIN PURCHASING.

The contractor on the foundation for the pumping station at Jerome Park reservoir has stopped work on account of freezing weather.

The appropriation of \$513,000 for building pumps, etc., for this pumping station is still in the Municipal Assembly for their action; also the ordinance authorizing the building of the engine, boiler and coal-houses.

ADDITIONAL WATER FUND.

The several Commissions of Appraisal have been taking testimony during the year, and as the moneys have become available the vouchers have been made out on the approval by the Courts of their reports.

REPAIRS AND RENEWAL OF PIPES, ETC.

Several gangs of men have been employed during the quarter making necessary repairs to stop-cocks, hydrants, mains, etc.

New hydrants set	205
Old hydrants repaired	2,526
New stop-cocks set	20
Old stop-cocks repaired	345
Mains repaired	350
Leaking service pipes shut off at mains	312
Hydrants found improperly closed	356
Linear feet new pipe laid	1,302
Permits to tap City mains	591

And during the year 1900—

New hydrants set	791
Old hydrants repaired	10,178
New stop-cocks set	150
Old stop-cocks repaired	1,491
Mains repaired	1,078
Leaking service pipes shut off at mains	1,128
Hydrants found improperly closed	1,717
Linear feet of new pipe laid	7,429
Permits to tap mains granted	2,518

There have been 83 horse troughs repaired, 1 ornamental drinking fountain set and 1 Bartholomew hydrant set.

There are now in the boroughs of Manhattan and The Bronx, outside of the parks:

Ornamental drinking fountains	3
Man and beast hydrants	12
Bartholomew hydrants	14
Low horse troughs	188
Private horse troughs	59
Drinking and beast fountains under care of the Society for Prevention of Cruelty to Animals	9

AQUEDUCT REPAIRS AND MAINTENANCE.

Work Done During Quarter.

Division No.	Earth Excavated, Cubic Yards.	Stone Quarried, Cubic Yards.	Dry Masonry, Cubic Yards.	Brickwork, Cubic Yards.	Concrete Laid, Cubic Yards.	Brick Paving, Square Yards.	Flagging Laid, Square Feet.	Gravel Paved, Square Feet.	Filling and Grading, Cubic Yards.	Scaffolding Laid, Square Feet.	Telegraph Poles Set.	Fence Built, Linear Feet.	Fence Repaired, Linear Feet.	Fence Fenced, Linear Feet.
1	11	11	11	11	11	11	11	11	11	11	11	11	11	11
2	11	11	11	11	11	11	11	11	11	11	11	11	11	11
3	11	11	11	11	11	11	11	11	11	11	11	11	11	11
4	11	11	11	11	11	11	11	11	11	11	11	11	11	11
5	11	11	11	11	11	11	11	11	11	11	11	11	11	11
6	11	11	11	11	11	11	11	11	11	11	11	11	11	11
7	11	11	11	11	11	11	11	11	11	11	11	11	11	11
8	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Total	20	100	101	50	45	750	7,100	100	995	15,000	3	1,283	4,065	21,908

Work Done During Year 1900.

Division No.	Earth Excavated, Cubic Yards.	Stone Quarried, Cubic Yards.	Dry Stone Masonry, Cubic Yards.	Brickwork, Cubic Yards.	Concrete Laid, Cubic Yards.	Brick Paving, Square Yards.	Flagging Laid, Square Feet.	Gutter Paved, Square Feet.	Spruce Gravel, Cubic Yards.	Filling and Grading, Cubic Yards.	Sodding, Square Feet.	Ironwork Painted, Square Feet.	Telegraph Poles Set.	Fence Posts Set.	Fence Gates Built.	Fence Built, Linear Feet.	Fence Repaired, Linear Feet.	Fence Painted, Linear Feet.	Board Walk Laid, Linear Feet.	Cement Masonry, Cubic Yards.
1	27	.....	410	.....	.....	.....	.....	.....	.....	175	.....	.....	44	44	.....	440	.....	421	.....	.....
2	134	340	37	.....	85 1/2	750	1,096	410	.....	77	.....	.....	.....	30	.....	598	1,811	4,867	.....	.....
3	375	475	285	.....	.....	.....	181	.....	.....	.....	.....	2,375	.....	.....	1,405	1,708	10,245	.....	.....	35
4	30	.....	188	.....	.....	.....	.....	.....	.....	138	.....	.....	.....	.....	1,165	1,805	1,175	.....	.....	.....
5	88	.....	447	.....	.....	.....	.....	.....	.....	68	.....	.....	1	15	1,081	2,159	10,081	.....	.....	.....
6	.....	.....	118	.....	.....	.....	.....	.....	.....	300	.....	.....	15	.....	400	1,700	2,831	1,000	.....	.....
7	.....	.....	.....	85	.....	.....	.....	.....	.....	300	15,095	.....	.....	.....	1,400	500	700	.....	.....	.....
8	.....	.....	.....	35	.....	1,114	.....	.....	.....	50	500	.....	.....	.....	.....	.....	6,150	.....	.....	.....
<b>Total</b>	<b>514</b>	<b>493</b>	<b>1,035</b>	<b>180</b>	<b>85 1/2</b>	<b>750</b>	<b>1,927</b>	<b>410</b>	<b>450</b>	<b>1,100</b>	<b>15,413</b>	<b>2,375</b>	<b>60</b>	<b>65</b>	<b>.....</b>	<b>7,187</b>	<b>15,811</b>	<b>19,077</b>	<b>1,000</b>	<b>35</b>

Division No. 1—The work on this division has been: Cleaning shore of lake, cleaning screens, painting outbuildings and fences, filling and grading.  
 Division No. 2—The work on this division has been: Concreting and laying brick walk on the promenade, painting masonry, filling and grading, repairs to bank wall; painted all the buildings, building and painting fences.  
 Division No. 3—The work on this division has been: Quarrying stone and building retaining wall, bluestone flagging laid, painting fences and painting engine-house shaft.  
 Division No. 4—The work on this division has been: Building extension to Keeper's house, carting cement and stone, building fences.  
 Division No. 5—The work on this division has been: Building and repairing fences, painting fences; painted house at Dunwoodie, repairs to roof of gate-house, North Yonkers.  
 Division No. 6—The work on this division has been: Painting fences and doors, windows and shutters of head houses, 19, 22, 23, repairs to stone wall, repairing fences, filling and grading.  
 Division No. 7—The work on this division has been: Brickwork at One Hundred and Seventy-ninth street pumping station; grading, filling and sodding at One Hundred and Seventy-ninth street; hoisting coal, cutting grass; building, repairing and painting fences; carpenter work at Keeper's house, painting iron and wire railing, hauling and storing paving blocks, cleaning up line of aqueduct and all approaches to reservoir and bridge.  
 Division No. 8—The work on this division has been: Painting at High Service Works, carpenter work at Keeper's house and at Twenty-fourth street yard, painting fences, repairing furnaces, cleaning surface of water in reservoirs, cleaning screens in gate-houses, repairing vault at Forty-second street, painting at One Hundred and Thirty-fifth street gate-house, and brickwork at Bleecker and Crosby streets.  
 Also the inspection of the three pumping plants, and furnishing the necessary coal, oil, etc., and keeping same in repair. The storage reservoirs, lands along same, fences and buildings in Westchester and Putnam Counties have been kept in order. The necessary policing of the watershed to stop nuisances and the treating of the sewerage of Mt. Kisco and Brewster have been continued.

In addition to the above the following amount of pipe, stop-cocks and hydrants have been relaid and reset to replace an equal amount abandoned on account of changes of grades of streets and construction of sewers during the year 1900.

Pipe.	Linear feet.
12-inch	1,454
6-inch	17,304
<b>Total</b>	<b>18,758</b>
<b>Stop-cocks.</b>	
12-inch	2
6-inch	24
<b>Total</b>	<b>26</b>
<b>Hydrants.</b>	
"A"	48
No. 1	1
<b>Total</b>	<b>49</b>

STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID AND RELAID IN YEAR 1900.

(R) Mains Reset and Replacing Others.

36-inch pipe—  
 Boulevard, between Ninety-sixth and Eighty-sixth streets.  
 Eighty-sixth street, between Boulevard and Central Park, West.  
 Transverse road No. 3, across Central Park to Fifth avenue at Eighty-fifth street.  
 Eighty-fifth street, between Fifth and Park avenues.  
 Park avenue, between Eighty-fifth and Eighty-second streets.  
 Eighty-second street, between Park and Lexington avenues.

20-inch pipe—  
 Eighty-second street, between Lexington and Third avenues.  
 Webster avenue, between Two Hundred and Thirty-third and Two Hundred and Thirty-fourth streets.  
 Two Hundred and Thirty-third street, between Jerome and Webster avenues.

12-inch pipe—  
 Aqueduct avenue, between Washington Bridge and Featherbed lane. (R.)  
 Eighth avenue, between One Hundred and Fifty-fifth and One Hundred and Fifty-eighth streets.  
 One Hundred and Eighty-first street, between Fort Washington avenue and Boulevard Lafayette.  
 Blackwell's Island, from 12-inch main opposite Seventy-ninth street, across island and thence southerly along east side of island.  
 One Hundred and Seventy-seventh street, from Boston road to Bronx river.  
 Across Bronx river to West Farms road.  
 West Farms road, from Bronx river to Morris Park avenue.  
 Morris Park avenue, from West Farms road to Bear Swamp road.  
 Kingsbridge road, between Grand and Tee Taw avenues. (R.)  
 Kingsbridge road, between Tee Taw and Nathalie avenues. (R.)

6-inch pipe—  
 Valentine avenue, between One Hundred and Eighty-third and One Hundred and Eighty-ninth streets. (R.)  
 One Hundred and Thirty-ninth street, between Lenox and Seventh avenues.  
 One Hundred and Eighty-third street, between Kingsbridge road and Eleventh avenue.  
 Tompkins street, between Stanton and Rivington streets.  
 Keppler avenue, between Two Hundred and Thirty-eighth and Two Hundred and Thirty-ninth streets. (R.)  
 McLean avenue and Two Hundred and Fortieth street (connection with Yonkers water system).  
 Anthony avenue, between One Hundred and Eightieth and One Hundred and Eighty-first streets. (R.)  
 Macy place, between Prospect avenue and Hewitt place.  
 One Hundred and Fifty-eighth street, between Gerard and River avenues.  
 Marion avenue, between Travers and William streets.  
 One Hundred and Sixty-third street, between Trinity and Tinton avenues.  
 Fifty-first street, between Eleventh and Twelfth avenues. (R.)  
 Arthur avenue, between Kingsbridge road and Pelham avenue. (R.)  
 One Hundred and Sixty-seventh street, between Third and Fulton avenues.  
 Trinity avenue, between One Hundred and Fifty-eighth and One Hundred and Sixty-first streets. (R.)  
 Union avenue, between One Hundred and Sixty-sixth and Home streets.  
 Two Hundred and Thirty-seventh street, between Keppler and Verlo avenues.  
 One Hundred and Fifty-sixth street, between Eighth avenue and Harlem river.  
 One Hundred and Eighty-eighth street, between Audubon and Eleventh avenues.  
 Two Hundred and Thirty-fifth street, between Keppler and Webster avenues.  
 Two Hundred and Thirty-sixth street, between Keppler and Webster avenues.  
 Mott avenue, from One Hundred and Twenty-eighth street, 250 feet north. (R.)  
 Two Hundred and Thirty-eighth street, between Katonah and Verlo avenues.  
 Two Hundred and Thirty-fourth street, between Two Hundred and Thirty-third street and Webster avenue.  
 Katonah avenue, between Two Hundred and Thirty-third and Two Hundred and Thirty-eighth streets.  
 Sixty-ninth street, between Avenue A and Exterior street.  
 Audubon avenue, between One Hundred and Seventy-third and One Hundred and Seventy-fifth streets.  
 Seventh avenue, between One Hundred and Fifty-second and One Hundred and Fifty-fourth streets.  
 Dyckman street, between Broadway and Speedway.  
 Marcher avenue, between old 6-inch main and Woody Crest avenue.  
 Brook avenue, between One Hundred and Sixty-eighth and One Hundred and Sixty-ninth streets.  
 Arthur avenue, between Crotona Park, North, and One Hundred and Seventy-fifth street.  
 Forest avenue, at intersection of One Hundred and Sixty-eighth street.  
 Stebbins avenue, between One Hundred and Sixty-fifth street and Westchester avenue.  
 Stebbins avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-ninth streets.

LAYING CROTON PIPES—REPORT FOR QUARTER ENDING DECEMBER 31, 1900.

Contracts for laying and relaying water-mains in the following streets and avenues have been completed during the quarter:

- (R) Mains Reset and Replacing Others.
- Grand avenue, between One Hundred and Ninetieth street and Kingsbridge road. (R.)
  - Kingsbridge road, Grand and Tee Taw avenues. (R.)
  - Kingsbridge road, Tee Taw and Nathalie avenues. (R.)
  - Kingsbridge road, between Grand and Tee Taw avenues. (R.)
  - Rafabridge avenue, One Hundred and Ninety-eighth street and Southern Boulevard. (R.)
  - Anthony avenue, One Hundred and Eighty-first and One Hundred and Eighty-second streets. (R.)
  - Gun Hill road, Hull and Perry avenues. (R.)
  - Huffman street, One Hundred and Eighty-ninth street and Pelham avenue. (R.)
  - Sheridan avenue, One Hundred and Fifty-eighth and One Hundred and Sixty-first streets.
  - One Hundred and Fifty-sixth street, Westchester and Caldwell avenues.
  - One Hundred and Twenty-third street, Columbus and Amsterdam avenues.
  - Boulevard (east side), Ninety-sixth and Eighty-sixth streets.
  - Eighty-sixth street, Boulevard and Central Park, West.
  - Transverse road No. 3, across Central Park to Fifth avenue at Eighty-fifth street.
  - Eighty-fifth street, Fifth and Park avenues.
  - Park avenue, Eighty-fifth and Eighty-second streets.
  - Eighty-second street, Park and Third avenues.

NOTE.—(R) indicates streets and avenues in which mains have been laid during the year to replace old mains abandoned on account of change of grades of streets and construction of sewers.

AMOUNT OF PIPE LAID, STOP-COCKS SET AND HYDRANTS PLACED IN 1900.

Pipe.		
DIAMETER.	LINEAR FEET LAID DURING QUARTER.	LINEAR FEET LAID DURING YEAR.
36-inch	1,349	10,700
20-inch	23	5,833
12-inch	905	15,406
6-inch	2,823	39,957
<b>Totals</b>	<b>5,100</b>	<b>69,896</b>

Stop-cocks.		
DIAMETER.	SET DURING QUARTER.	SET DURING YEAR.
12-inch	.....	2
6-inch	.....	24
<b>Totals</b>	<b>17</b>	<b>26</b>

Hydrants.		
PATTERN.	PLACED DURING QUARTER.	PLACED DURING YEAR.
No. 1, 2 and 3	.....	3
"A"	7	112
Double nozzle "A"	1	2
Double nozzle "New York"	2	10
Miscellaneous	.....	14
<b>Totals</b>	<b>10</b>	<b>142</b>

NOTE.—(R) indicates streets and avenues in which mains have been relaid during the year to replace old mains abandoned on account of changes of grades of streets and construction of sewers.

6-inch pipe—

Crotone Park, North, between Crotone Park and One Hundred and Seventy-fifth street.	
One Hundred and Sixty-third street, between Third and Cauldwell avenues.	
One Hundred and Eighty-ninth street, between Webster and Morris avenues.	
Katonah avenue, between Two Hundred and Thirty-ninth and Two Hundred and Fortieth streets.	
Two Hundred and Fortieth street, between Katonah and McLean avenues.	
McLean avenue, between Two Hundred and Fortieth street and Webster avenue.	
One Hundred and Seventy-sixth street, between Monroe and Morris avenues. (R.)	
Sherman avenue, between One Hundred and Sixty-first and One Hundred and Sixty-fourth streets.	
Mount Hope place, between One Hundred and Sixty-first and One Hundred and Sixty-fourth streets. (R.)	
Spuyten Duyvil Parkway, between Two Hundred and Thirty-third and Two Hundred and Thirty-sixth streets. (R.)	
Topping street, between One Hundred and Seventy-second and One Hundred and Seventy-fourth streets. (R.)	
Topping street, between One Hundred and Seventy-fourth and One Hundred and Seventy-fifth (Gray) streets. (R.)	
Johanson's lane, from Kappock street, south. (R.)	
Woodlawn road, between Webster and Perry avenues. (R.)	
One Hundred and Eighty-third street, between Quarry road and Beaumont avenue. (R.)	
Edgecombe avenue, between One Hundred and Fifty-fifth and One Hundred and Fifty-seventh streets.	
Edgecombe avenue, between One Hundred and Fifty-eighth street and Amsterdam avenue.	
Kalnbridge avenue, between One Hundred and Ninety-eighth street and Southern Boulevard. (R.)	
Grand avenue, between One Hundred and Ninetieth street and Kingsbridge road. (R.)	
Anthony avenue, between One Hundred and Eighty-first and One Hundred and Eighty-second streets. (R.)	
Gun Hill road, between Hill and Perry avenues. (R.)	
Hoffman street, between One Hundred and Eighty-ninth street and Pelham avenue. (R.)	
Sheridan avenue, between One Hundred and Fifty-eighth and One Hundred and Sixty-first streets.	
One Hundred and Fifty-sixth street, between Westchester and Cauldwell avenues.	
One Hundred and Twenty-third street, between Columbus and Amsterdam avenues.	
Eighty-second street, between Avenue A and Exterior street.	

Note.—R. indicates streets and avenues in which mains have been relaid during the year to replace old mains abandoned on account of changes of grades of streets and construction of sewers.

*"A" Hydrants Placed During the Year 1900.*

Northeast corner One Hundred and Thirty-ninth street and Lenox avenue.	1
North side One Hundred and Thirty-ninth street, between Lenox and Seventh avenues.	1
Northeast corner One Hundred and Thirty-ninth street and Seventh avenue.	1
Northeast corner One Hundred and Eighty-third street and Wadsworth avenue.	1
Northeast corner One Hundred and Eighty-third street and Kingsbridge road.	1
Northwest corner Mary place and Hewitt place.	1
Northeast corner Macy place and Prospect place.	1
North side One Hundred and Sixty-third street, between Trinity and Jackson avenues.	1
North side One Hundred and Sixty-third street, between Forest and Tinton avenues.	1
Northeast corner One Hundred and Sixty-seventh street and Third avenue.	1
Southwest corner One Hundred and Sixty-seventh street and Fulton avenues.	1
Southwest corner Trinity avenue and One Hundred and Sixtieth street.	1
Northwest corner Union avenue and One Hundred and Sixty-sixth street.	1
West side Union avenue, between One Hundred and Sixty-sixth and Home streets.	1
Southwest corner Marion avenue and Travers street.	1
West side Marion avenue, between Travers and William streets.	1
Northwest corner Two Hundred and Thirty-seventh street and Katonah avenue.	1
Northeast corner Two Hundred and Thirty-seventh street and Katonah avenue.	1
Northwest corner Two Hundred and Thirty-seventh street and Martha avenue.	1
North side Two Hundred and Thirty-seventh street, between Martha and Verio avenues.	1
North side One Hundred and Fifty-eighth street, between Gerard and River avenues.	1
Northeast corner Eighth avenue and One Hundred and Fifty-fifth street.	1
Northeast corner Eighth avenue and One Hundred and Fifty-sixth street.	1
Southeast corner Eighth avenue and One Hundred and Fifty-eighth street.	1
Northeast corner One Hundred and Fifty-sixth street and Eighth avenue.	1
North side One Hundred and Fifty-sixth street, between Eighth avenue and Exterior street.	1
Northeast corner One Hundred and Eighty-eighth street and Eleventh avenue.	1
Northwest corner One Hundred and Eighty-eighth street and Audubon avenue.	1
Northeast corner Two Hundred and Thirty-fifth street and Keppler avenue.	1
North side Two Hundred and Thirty-fifth street, between Keppler and Katonah avenues.	1
Northeast corner Two Hundred and Thirty-fifth street and Katonah avenue.	1
North side Two Hundred and Thirty-fifth street, between Katonah and Martha avenues.	1
North side Two Hundred and Thirty-fifth street, between Martha and Verio avenues.	1
North side Two Hundred and Thirty-fifth street, between Verio and Webster avenues.	1
Northeast corner Two Hundred and Thirty-sixth street and Keppler avenue.	1
North side Two Hundred and Thirty-sixth street, between Keppler and Katonah avenues.	1
North side Two Hundred and Thirty-sixth street, between Katonah and Martha avenues.	1
Northwest corner Two Hundred and Thirty-sixth street and Martha avenue.	1
North side Two Hundred and Thirty-sixth street, between Martha and Verio avenues.	1
North side Two Hundred and Thirty-sixth street, between Verio and Webster avenues.	1
North side Two Hundred and Thirty-eighth street, between Katonah and Martha avenues.	1
Northwest corner Two Hundred and Thirty-eighth street and Martha avenue.	1
North side Two Hundred and Thirty-eighth street, between Martha and Verio avenues.	1
Northwest corner Two Hundred and Thirty-eighth street and Verio avenue.	1
North side Two Hundred and Thirty-fourth street, between Katonah avenue and Two Hundred and Thirty-third street.	1
Northwest corner Two Hundred and Thirty-fourth street and Katonah avenue.	1
Northeast corner Two Hundred and Thirty-fourth street and Katonah avenue.	1
North side Two Hundred and Thirty-fourth street, between Katonah and Verio avenues.	1
Northwest corner Two Hundred and Thirty-fourth street and Webster avenue.	1
West side Katonah avenue, between Two Hundred and Thirty-third and Two Hundred and Thirty-fourth streets.	1
West side Katonah avenue, between Two Hundred and Thirty-fourth and Two Hundred and Thirty-fifth streets.	1
West side Katonah avenue, between Two Hundred and Thirty-fifth and Two Hundred and Thirty-sixth streets.	1
West side Katonah avenue, between Two Hundred and Thirty-sixth and Two Hundred and Thirty-seventh streets.	1
West side Katonah avenue, between Two Hundred and Thirty-seventh and Two Hundred and Thirty-eighth streets.	1
Northeast corner Sixty-ninth street and Avenue A.	1
Northwest corner Sixty-ninth street and Exterior street.	1
West side Audubon avenue, between One Hundred and Seventy-third and One Hundred and Seventy-fourth streets.	1
Northwest corner Audubon avenue and One Hundred and Seventy-fourth street.	1
Northeast corner One Hundred and Fifty-third street and Seventh avenue.	1
South side Dyckman street, between Broadway and Sherman avenues.	1
South side Dyckman street, between Sherman and Naegle avenues.	1
South side Dyckman street, between Naegle avenue and Speedway.	1
Southwest corner Brook avenue and One Hundred and Sixty-ninth street.	1
West side Arthur avenue, between Crotone Park, North, and One Hundred and Seventy-fifth street.	1
West side Stebbins avenue, between One Hundred and Sixty-third and One Hundred and Sixty-fifth streets.	1
Northwest corner Stebbins avenue and One Hundred and Sixty-third street.	1
Southwest corner Stebbins avenue and One Hundred and Sixty-ninth street.	1
Southwest corner Stebbins avenue and Home street.	1
West side Stebbins avenue, between One Hundred and Sixty-seventh and Home streets.	1
Southeast corner One Hundred and Seventy-fifth street and Crotone Park, North.	1
Northwest corner One Hundred and Sixty-third street and Eagle avenue.	1
Northwest corner One Hundred and Sixty-third street and Cauldwell avenue.	1
Northeast corner One Hundred and Eighty-ninth street and Highbridge road.	1
North side One Hundred and Eighty-ninth street, between Crotone avenue and Concourse.	1
North side One Hundred and Eighty-ninth street, between Concourse and Valentine avenue.	1
North side One Hundred and Eighty-ninth street, between Valentine and Tiebout avenues.	1

Northeast corner One Hundred and Eighty-ninth street and Tiebout avenue.	1
Northeast corner One Hundred and Eighty-ninth street and Marion avenue.	1
Southwest corner Katonah avenue and Two Hundred and Fortieth street.	1
North side Two Hundred and Fortieth street, between Martha and Verio avenues.	1
Northwest corner Two Hundred and Fortieth street and Martha avenue.	1
Northeast corner Two Hundred and Fortieth street and Katonah avenue.	1
West side Sherman avenue, between One Hundred and Sixty-first and One Hundred and Sixty-second streets.	1
Northwest corner Sherman avenue and One Hundred and Sixty-third street.	1
Northeast corner Webster avenue and Two Hundred and Thirty-third street.	1
Northwest corner Oneida avenue and Two Hundred and Thirty-third street.	1
South side Two Hundred and Thirty-third street, between Napier and Jerome avenues.	3
Northeast corner Mt. Hope place and Morris avenue.	1
Southeast corner One Hundred and Eighty-first street and Boulevard Lafayette.	1
East side Blackwell's Island, near cook-house.	1
East side Blackwell's Island, near work-house shop.	1
East side Blackwell's Island, near new boiler-house.	1
East side Blackwell's Island, near Women's Hospital.	1
Northwest corner One Hundred and Eighty-third street and Adams place.	1
Northwest corner Edgecombe avenue and One Hundred and Fifty-fifth street.	1
West side Edgecombe avenue, between One Hundred and Fifty-ninth and One Hundred and Sixtieth streets.	1
West side Edgecombe avenue, between One Hundred and Sixtieth and One Hundred and Sixty-second streets.	1
West side Edgecombe avenue, between One Hundred and Sixty-second and One Hundred and Sixty-third streets.	1
West side Edgecombe avenue, between One Hundred and Sixty-fourth and One Hundred and Sixty-fifth streets.	1
West side Edgecombe avenue, near Jennet place.	1
Southeast corner Edgecombe and Amsterdam avenues.	1
North side Longwood avenue, between Barry and Tiffany streets.	1
Northeast corner Anthony avenue and One Hundred and Eighty-first street.	1
North side One Hundred and Fifty-sixth street, between Cauldwell and Trinity avenues.	1
North side One Hundred and Fifty-sixth street, between Trinity and Jackson avenues.	1
North side One Hundred and Fifty-sixth street, between Jackson and First avenues.	1
Northwest corner One Hundred and Fifty-sixth street and Westchester avenue.	1
North side One Hundred and Twenty-third street, between Columbus and Amsterdam avenues.	1
Northeast corner One Hundred and Twenty-third street and Amsterdam avenue.	1
Total.	112

*New York Hydrants Placed During Year 1900.*

North side Fifty-first street, between Eleventh and Twelfth avenues.	1
Northeast corner Broadway and Ninety-second street.	1
Southeast corner Broadway and Ninety-second street.	1
Northwest corner Eighty-sixth street and Amsterdam avenue.	1
Northwest corner Eighty-sixth street and Columbus avenue.	1
Northeast corner Eighty-sixth street and Central Park, West.	1
North side Transverse Road No. 3, east of West Arch.	1
South side Eighty-fifth street, between Fifth and Madison avenues.	1
Southeast corner Eighty-fifth street and Madison avenue.	1
Northwest corner Park avenue and Eighty-second street.	1
Total.	10

*No. 1 Hydrants Placed during Year 1900.*

Northwest corner Tompkins and Rivington streets.	1
West side Tompkins street, between Rivington and Stanton streets.	1
Southwest corner Tompkins and Stanton streets.	1
Total.	3

*Miscellaneous Hydrants Placed during Year 1900.*

Southwest corner One Hundred and Seventy-seventh street and Boston road.	1
South side West Farms road, between Bronx river and Bronx Park avenue.	1
Southwest corner West Farms road and Bronx Park avenue.	1
Southwest corner West Farms road and Morris Park avenue.	1
West side Morris Park avenue, between West Farms road and Adams street.	1
West side Morris Park avenue, between Adams and Van Buren streets.	1
Northwest corner Morris Park avenue and Hancock street.	1
Northwest corner Morris Park avenue and Garfield street.	1
Southwest corner Morris Park avenue and Unionport road.	1
Southwest corner Morris Park avenue and Washington street.	1
Southeast corner Morris Park avenue and Lincoln street.	1
Northwest corner Morris Park avenue and Jefferson street.	1
West side Morris Park avenue, between Madison and Rose streets.	1
Southwest corner Morris Park avenue and Bear Swamp road.	1
Total.	14

*Additional Fire-hydrants and Repairs to Large Mains and Stop-cocks.*

Two gangs of men have been employed during the quarter, placing new hydrants, relaying mains, resetting stop-cocks and hydrants, changing taps, etc. The amount of work done is as follows:

41 linear feet of new 12-inch pipe laid.	6 hydrants repaired.
103 1/2 linear feet of new 6-inch pipe laid.	3 twelve-inch stop-cocks replaced.
48 linear feet of new 4-inch pipe laid.	2 six-inch stop-cocks replaced.
1 new 20-inch stop-cock and gearing set.	1 No. 1 hydrant replaced.
3 new 12-inch stop-cocks and boxes set.	1 tap shut off.
6 new 6-inch stop-cocks and boxes set.	1 double-nozzle "A" hydrant replaced by newer pattern.
35 new New York hydrants set.	1 Victor hydrant replaced by newer pattern.
1 new double-nozzle "A" hydrant set.	26 Nos. 1, 2 and 3 hydrants replaced by newer pattern.
1 forty-eight-inch main repaired.	10 "B" hydrants replaced by newer pattern.
3 twelve-inch mains repaired.	
6 twelve-inch stop-cocks repaired.	
4 six-inch stop-cocks repaired.	

*Additional Fire-hydrants and Repairs to Large Mains and Stop-cocks.*

Two gangs of men have been employed during the year, placing new hydrants, relaying and repairing mains, stop-cocks, and hydrants, changing taps, etc. The amount of work done is as follows:

61 linear feet new 12-inch pipe laid.	28 twelve-inch stop-cocks repaired.
150 1/2 linear feet new 6-inch pipe laid.	24 twelve-inch stop-cocks repaired.
22 1/2 linear feet new 4-inch pipe laid.	59 six-inch stop-cocks repaired.
1 new 20-inch stop-cock and gearing set.	74 hydrants repaired.
7 new 12-inch stop-cocks and boxes set.	1 forty-eight-inch main repaired.
23 new 6-inch stop-cocks and boxes set.	2 thirty-six-inch mains repaired.
147 new New York hydrants set.	1 twenty-four-inch main repaired.
3 new miscellaneous hydrants set.	9 twelve-inch mains repaired.
2 new double-nozzle "A" hydrants set.	12 six-inch mains repaired.
1 new No. 1 hydrant set.	3 four-inch mains repaired.
16 Nos. 1, 2 and 3 hydrants replaced.	5 taps shut off.
2 double-nozzle "A" hydrants replaced.	2 double-nozzle "A" hydrants abandoned and replaced by others of newer pattern.
1 New York hydrant replaced.	2 Victor hydrants abandoned and replaced by others of newer pattern.
36 six-inch stop-cocks replaced.	44 Nos. 1, 2 and 3 hydrants abandoned and replaced by others of newer pattern.
10 twelve-inch stop-cocks replaced.	28 "B" hydrants abandoned and replaced by others of newer pattern.
1 twenty-inch stop-cock replaced.	
3 forty-eight-inch stop-cocks repaired.	
5 thirty-six-inch stop-cocks repaired.	
3 thirty-inch stop-cocks repaired.	
6 twenty-four-inch stop-cocks repaired.	

REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.—AMOUNT OF PIPE LAID, STOP-COCKS SET AND HYDRANTS PLACED IN 1900.

Pipe.

Table with 3 columns: DIAMETER, LINEAR FEET LAID DURING QUARTER ENDING DECEMBER 31, 1900, LINEAR FEET LAID DURING YEAR 1900. Rows include 2-inch, 3-inch, 4-inch, and Totals.

Stopcocks.

Table with 3 columns: DIAMETER, SET DURING QUARTER ENDING DECEMBER 31, 1900, SET DURING YEAR 1900. Rows include 2-inch, 3-inch, 4-inch, and Totals.

Hydrants.

Table with 3 columns: PATTERNS, PLACED DURING QUARTER ENDING DECEMBER 31, 1900, PLACED DURING YEAR 1900. Rows include New York, Lion's nozzle "A", No. 1, 2 and 3, "B", Victor, Miscellaneous, and Totals.

Note.—This table shows amount of work done by the two companies employed on "Repairing and Renewal of Pipes, Stop-cocks, etc.," and also includes the new additional hydrants set by the various railroad companies during the time occupied in changing the motive power on their lines.

New York Hydrants Placed During the Year 1901.

Table listing specific hydrant locations in New York City with corresponding counts. Locations include various street corners and intersections throughout the city.

Table listing specific hydrant locations in New York City with corresponding counts. Locations include various street corners and intersections throughout the city.

Total 175

"A" Hydrants Placed During Year 1900.

Table listing "A" hydrant locations: West side of Sheridan avenue, between One Hundred and Fifty-eighth and One Hundred and Fifty-ninth streets; Northeast corner Potter place and Jerome avenue; Southwest corner of Kelly street and Longwood avenue.

Total 3

"B" Hydrants Placed During Year 1900.

Table listing "B" hydrant locations: Southeast corner Forty-second street and Tenth avenue; Southeast corner Forty-second street and Ninth avenue; Southwest corner Forty-second street and Ninth avenue.

Total 3

Victor Hydrants Placed During Year 1900.

Table listing Victor hydrant locations: Southeast corner Forty-second street and Lexington avenue; Southwest corner Forty-second street and Third avenue.

Total 2

No. 1 Hydrants Placed During Year 1900.

Table listing No. 1 hydrant locations: Northwest corner Madison avenue and Fiftieth street; Southwest corner Boulevard Lafayette and Depot lane.

Total 2

Miscellaneous Hydrants Placed During Year 1900.

Table with 2 columns: Description of hydrant location and quantity. Includes locations like North side Twenty-ninth street, between Second and Third avenues.

Total 3

Double Nozzle "A" Hydrants Placed During Year 1900.

Table with 2 columns: Description of hydrant location and quantity. Includes locations like Northwest corner One Hundred and Nineteenth street and Pleasant avenue.

Total 6

SUMMARY, 1900.

Pipe.

Table with 4 columns: Diameter, Linear Feet Laid to December 31, 1899, Linear Feet Laid from December 31, 1899, to December 31, 1900, and Total Linear Feet Laid to December 31, 1900. Rows include 48-inch, 36-inch, 30-inch, 24-inch, 18-inch, 15-inch, 12-inch, and 6-inch pipes.

\* Less 120 feet of 30-inch pipe abandoned.
† Less 273 feet of 6-inch pipe abandoned.

Stop-cocks.

Table with 4 columns: Diameter, Set to December 31, 1899, Set from December 31, 1899, to December 31, 1900, and Total Set to December 31, 1900. Rows include 48-inch, 36-inch, 30-inch, 24-inch, 18-inch, 15-inch, 12-inch, and 6-inch stop-cocks.

\* Less 1 20-inch stop-cock abandoned.
† Less 3 6-inch stop-cocks abandoned.

Hydrants.

Table with 4 columns: Pattern, Placed to December 31, 1899, Placed from December 31, 1899, to December 31, 1900, and Total Placed to December 31, 1900. Rows include Nos. 1, 2 and 3, Victor, "A", "B", Double nozzle "A", Double nozzle New York, and Miscellaneous.

\* Less 44 Nos. 1, 2 and 3 hydrants abandoned and replaced by newer pattern.
† Less 2 Victor hydrants abandoned and replaced by newer pattern.
‡ Less 1 "A" hydrant abandoned.
§ Less 28 "B" hydrants abandoned and replaced by newer pattern.
|| Less 2 double nozzle "A" hydrants abandoned and replaced by newer pattern.

Water-mains Laid.

Table with 6 columns: Year, Miles, Total Miles, Year, Miles, Total Miles. Shows data from 1870 to 1900.

LAYING WATER-MAINS—BOROUGH OF QUEENS.

In addition to the foregoing report the following amount of pipe has been laid and stop-cocks and hydrants set in the Borough of Queens during the year 1900.

Twelve-inch Pipe.

Broadway, from Flushing Pumping Station to Main avenue.

Six-inch Pipe.

Broadway, from Main avenue to city line.
Main avenue, from Broadway to Little Neck Bay.

Amount of Pipe Laid.

Table with 2 columns: Diameter and Linear Feet. Rows include 12-inch (4,236) and 6-inch (7,994).

Total 12,230

Stop-cocks Set.

Table with 2 columns: Diameter and Quantity. Rows include 12-inch (3) and 6-inch (3).

Total 6

13 Ludlow hydrants placed.

WASTE AND USE OF WATER.

Table with 2 columns: Month and Gallons. Rows include October (Croton watershed 260,000,000; Bronx and Byram sheds 44,000,000), November (Croton watershed 253,000,000; Bronx and Byram sheds 14,000,000), December (Croton watershed 256,000,000; Bronx and Byram sheds 15,000,000). Also includes Average daily use, 1900 (270,000,000) and Amount run over Croton Dam (47,254,000,000).

There is now before the Municipal Assembly for their approval, having passed the Board of Estimate and Apportionment, for the issue of bonds:

Table with 2 columns: Description and Amount. Rows include For buildings, engines, etc., for Jerome Avenue Pumping Station (\$313,000.00), For damages on Byram river (30,000.00), For damages and land in Croton watershed (250,000.00), For laying 48-inch main in Bronx (150,000.00).

There is required in order to carry on the work of increasing and distributing the water supply for Manhattan and The Bronx for 1901:

Table with 2 columns: Description and Amount. Row: To pay for land and damages under chapter 109, Laws of 1895 (3500,000.00).

Under sections 178 and 409 of the Charter—

Table with 2 columns: Description and Amount. Rows include For building 100,000 linear feet of fence around property taken under Sanitary Protection Act and Croton Water Fund in Putnam and Westchester Counties, at 60 cents (\$60,000.00), For cleaning up the above land, 5,000 days' work, at \$2 (10,000.00), For land for Cross River Reservoir (300,000.00), For building Cross River Reservoir (950,000.00), For large mains in connect Jerome Pumping Station with present mains (200,000.00), For wells, pumps, houses, etc., in Queens (100,000.00), For examinations and surveys for additional supply of water (100,000.00).

The rains during November and December have not relieved this Department, especially in The Bronx and Byram river watersheds. Storage is still being drawn and the pressures are 10 pounds below the normal. The failure of the Board of Estimate and Apportionment and the Municipal Assembly to give the necessary moneys and authority to build the necessary works, etc., in time as called for by this Department in 1897, 1898 and 1899, has brought about the present deplorable want of supply.

BOROUGH OF QUEENS.

SUMMARY OF EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1900.

Table with 2 columns: Description and Amount. Rows include Contingencies (\$227.13), Maintenance and Repairs to Water-pipes, etc. (5,385.12), Pumping Stations—Fuel and Supplies (6,682.05), Salaries—Office of Deputy Commissioner (4,154.94), Salaries—Pumping Stations (5,618.15), Supplying Water to Long Island City (20,989.83), Water-main Fund—Queens (13,464.00).

Total \$50,571.82

SUMMARY OF EXPENDITURES FOR THE YEAR 1900.

Table with 2 columns: Description and Amount. Rows include Contingencies (\$1,249.12), Maintenance and Repairs to Water-pipes, etc. (23,960.60), Pumping Stations—Fuel and Supplies (29,252.46), Salaries—Office of Deputy Commissioner (15,909.33), Salaries—Pumping Stations (22,375.74), Stand-pipe Bonds of 1897—Village of Flushing (2,973.00), Supplying Water to Long Island City (78,000.50), Water-main Fund—Queens (13,464.00).

Total \$186,950.72

During the quarter there have been a great many complaints regarding the pressure, which is insufficient to supply the five-story houses in the lower portion of the city, and to supply even the second stories on the higher levels. The large factories, against which complaints are continually being made, are using all their water through meters and paying promptly for the same, and it is, therefore, a difficult matter to compel them to shut down. We are pumping all water we can from the various stations in the borough. The condition of the stations in the First Ward remains about the same, after having spent considerable money in partial repairs. Much yet remains to be done owing to insufficient appropriations.

The machinery in the various stations in the First Ward is in good condition, with the exception of some of the small pumps, which are now being repaired. The stack on the old boiler at Station No. 3 got into such a bad and dangerous condition that it was necessary to take it down within 15 feet of the roof. The old boiler is also in need of repair.

During this quarter the question of drainage at both Stations Nos. 1 and 2 has become one of pressing necessity, and surveys are being made to improve same.

At the Flushing Station the settings of the boilers in the boiler-room have been completed and parts for the fronts of the boilers furnished and the piping renewed and rearranged.

At the College Point Station the Worthington pump has been temporarily repaired, so that it can be run while making some necessary repairs to the Snow pump.

At the Whitestone Pumping Station the machinery is all in good order, as is the building itself, and with the help that station receives from Flushing and College Point, they have been able to keep up the pressures. Have recently had complaints of a low pressure in the early morning, caused by shutting down the Flushing Station and the Whitestone Station at night and throwing all of the work upon the College Point Station. Complaints regarding the quality of the water, which were numerous a short time ago, have been entirely withdrawn since the report of the Board of Health upon the same.

During this quarter the small pond at the Flushing Pumping Station has been thoroughly cleaned, and have had to use more water from it than usual, by reason of a break in the suction on the driven wells.

Table of Work Done in the Department of Water Supply, Borough of Queens, City of New York, during the Quarter ending December 31, 1900.

Number of taps—	
First Ward.....	33
Third Ward.....	43
Number of leaks repaired—	
First Ward.....	0
Third Ward.....	1
Number of stop-cocks repaired—	
First Ward.....	0
Third Ward.....	0
Number of hydrants repaired—	
First Ward.....	22
Third Ward.....	22
Number of gate boxes repaired—	
First Ward.....	41
Third Ward.....	0
New stop-cocks set—	
First Ward.....	4
Third Ward.....	0
New gate boxes set—	
First Ward.....	1
Third Ward.....	0
New hydrants set—	
First Ward.....	1
Third Ward.....	2
Linear loss of pipe laid—	
First Ward.....	10
Third Ward.....	10

Table of Cost of Land and Water Pumping.

	PERCENT OF COST (BASED ON THE DAY)	PERCENT OF COST (BASED ON THE YEAR)
<b>First Ward—</b>		
Sutton.....	5.00	70.00
".....	5.00	50.00
".....	5.00	47.00
<b>Third Ward—</b>		
Flooding Station.....	8.25	100.00
College Point Station.....	1.20	100.00
Whitestown Station.....	7.50	100.00
<b>Citizen's Water Supply Company—</b>		
Flushing Avenue Main.....	1.00	100.00
Grand Hill Avenue Aerial (from land to pipe).....	1.00	100.00
Flushing Avenue Meter North.....	1.00	100.00
Flushing Avenue Meter South.....	1.00	100.00

The use of water in factories, etc., has largely increased and with the present pumping facilities and appropriations for purchasing water from outside companies, the Department will not be able to keep up the present standard during the first of the year 1901.

An appropriation has been made for laying small mains, as many of the streets and avenues where there are houses have not been graded. This work will be much needed.

An issue of bonds to the amount of \$700,000 has been asked for to improve some of the pumping stations in this borough, so as to obtain all of the water available from the City's existing plants and property.

The growth of this borough is such that a large increase in the supply is necessary.

BOROUGH OF BROOKLYN.

EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1900.

Water Supply—Maintenance and Repairs—Salaries and Wages.....	\$125,045 30
Water Supply—Maintenance and Repairs—Materials and Supplies.....	58,517 78
Water Supply—Distribution and Repairs—Salaries and Wages.....	51,271 01
Water Supply—Distribution and Repairs—Materials and Supplies.....	8,471 05
Salaries—Chief Engineer's Office.....	1,875 00
Salaries—Laboratory.....	1,500 12
Contingencies.....	758 70
Contingencies, 1899.....	27 50
Rental of Hydrants.....	7,500 00
Water-main Fund.....	55,070 12
Water Construction.....	1,400 53
<b>Total.....</b>	<b>\$311,603 05</b>

EXPENDITURES DURING THE YEAR 1900.

Water Supply—Maintenance and Repairs—Salaries and Wages.....	\$167,674 56
Water Supply—Maintenance and Repairs—Materials and Supplies.....	301,127 04
Water Supply—Distribution and Repairs—Salaries and Wages.....	188,081 65
Water Supply—Distribution and Repairs—Materials and Supplies.....	20,373 41
Salaries—Chief Engineer's Office.....	7,451 44
Salaries—Laboratory.....	5,200 00
Contingencies.....	3,029 88
Contingencies, 1899.....	650 51
Rental of Hydrants.....	31,054 21
Rental of Hydrants, 1899.....	15,286 25
Water-main Fund.....	77,824 18
Water Construction.....	126,902 25
<b>Total.....</b>	<b>\$1,257,585 21</b>

WATER CONSUMPTION—U. S. GALLONS.

	1899.	1900.
<i>Ridgewood Supply.</i>		
Average daily consumption—		
Ridgewood Low Service.....	83,779,974	77,329,566
Mount Prospect Low Service.....	6,007,373	6,387,550
Mount Prospect High Service.....	3,919,101	3,716,781
<b>Total.....</b>	<b>93,706,448</b>	<b>87,433,897</b>
Maximum daily consumption, winter months.....	112,915,648 (Feb. 11.)	109,971,300 (Feb. 26.)
Maximum daily consumption, summer months.....	103,771,900 (June 6.)	99,598,700 (June 25.)
Maximum average daily consumption for one month.....	30,771,414 (Feb.)	27,256,604 (June)
Maximum daily consumption for year.....	112,915,648 (Feb. 11.)	109,971,300 (Feb. 26.)

	1899.	1900.
<i>Grandview Supply.</i>		
Average daily consumption.....	2,258,031	2,271,177
Maximum daily consumption, winter months.....	2,500,000 (Dec. 22.)	2,500,000 (Dec. 22.)
Maximum daily consumption, summer months.....	1,600,000 (June 1.)	1,600,000 (July 26.)
Maximum average daily consumption for one month.....	1,075,177 (June)	1,125,811 (Oct.)
Maximum daily consumption for year.....	2,500,000 (Dec. 22.)	2,500,000 (Dec. 22.)
<i>New Utrecht Supply.</i>		
Average daily consumption.....	1,269,596	1,441,000
Maximum daily consumption, winter months.....	1,684,000 (Dec. 26.)	1,684,000 (Dec. 26.)
Maximum daily consumption, summer months.....	1,000,000 (June 7.)	1,100,000 (June 25.)
Maximum average daily consumption for one month.....	1,000,000 (June)	1,100,000 (June)
Maximum daily consumption for year.....	1,684,000 (Dec. 26.)	1,684,000 (Dec. 26.)
<i>New Lots Supply.</i>		
Average daily consumption.....	.....	674,000
Maximum daily consumption, winter months.....	.....	1,000,000 (Dec. 26.)
Maximum daily consumption, summer months.....	.....	1,000,000 (June 25.)
Maximum average daily consumption for one month.....	.....	1,000,000 (March)
Maximum daily consumption for year.....	.....	1,000,000 (May 14.)

\* Period from May 1 to December 31.

Summary of Ridgewood, Grandview, New Utrecht and New Lots Supplies.

	1899. New Lots Unlimited.	1900. New Lots Unlimited.	1900. Total.
Average daily consumption.....	3,527,627	3,106,176	6,633,803
Maximum daily consumption, winter months.....	4,000,000 (Dec. 22.)	4,000,000 (Feb. 26.)	.....
Maximum daily consumption, summer months.....	2,500,000 (June 6.)	2,400,000 (June 25.)	4,900,000 (June 25.)
Maximum average daily consumption for one month.....	1,075,177 (June)	1,100,000 (June)	2,175,177 (June)
Maximum daily consumption for year.....	4,000,000 (Dec. 22.)	4,000,000 (Dec. 26.)	.....
Population dependent upon the system.....	* 2,215,200	1,708,200	3,923,400
Average consumption per head per day.....	15.9	18.1	16.9

\* Estimated by Board of Health for 1899 and includes all of population of Twelfth Ward, although a portion is supplied from Ridgewood.  
† From Twelfth Federal Census.

It will be noticed that the total consumption (New Lots unlimited) for the year 1900 is nearly 4,000,000 gallons less than for the year 1899, that the population is 58,200 less, and that the per capita daily consumption has apparently increased 1.7 gallons. This discrepancy is due to error in the population statistics for the year 1899, which were taken from the estimates prepared by the Local Board of Health, while those for the past year are based on the returns from the Twelfth Federal Census. Correcting the population for the year 1899 to agree with an annual rate of growth of about 3 per cent, the number of consumers for that year would become about 1,700,000 and the per capita average daily consumption about 87 gallons; under these conditions there would appear a reduction in the per capita daily supply of about 0.7 gallons, which probably more accurately represents the actual conditions. The average daily yield in United States gallons for the past year of the various sources of supply has been as follows:

WATERSHED.	GRAVITY SURFACE SOURCES.	POUND PUMPING STATIONS.	DRIVEN WELLS STATIONS.	TOTAL.
Old.....	12,744,243	7,537,452	8,427,000	28,708,700
New.....	5,777,000	.....	8,724,000	14,501,000
<b>Total.....</b>	<b>18,521,243</b>	<b>7,537,452</b>	<b>17,151,000</b>	<b>43,209,695</b>

The yield as above given, when expressed in inches of rainfall on the watershed and in percentage of the total precipitation, is as follows:

	INCHES OF RAINFALL.	PERCENTAGE OF RAINFALL.
Old watershed.....	11.80	25.97
New watershed.....	9.90	21.94
Both watersheds.....	10.55	23.95

A comparison of this record with that of last year shows a diminution in the gravity supply of nearly 10,000,000 per day, and for the pond pumping-stations of nearly 1,000,000 gallons per day, while for the driven wells the increase has been about 5,500,000 gallons daily, making a net decrease in the Ridgewood supply for the year of approximately 5,500,000 gallons, as compared with the yield during the year 1899.

All the driven well and pond pumping-stations of the old watershed have been in operation throughout the year, excepting when shut down for necessary repairs; for this reason the Spring Creek Old Station was out of service for 2 days, the Sheincker Station for 21 days, the Ocofer Station for 20 days and the Springfield Station for 2 days. The driven well stations of the new watershed have been operated as required to bring the total yield of the new watershed up to the full conduit capacity from Millburn, or approximately 40,000,000 gallons per day. They were out of service from February 23 to July 5, at which date the Massapequa Station was started, and the remaining four stations soon after, so that on July 25 all the stations were in operation and have been so continued since.

RAINFALL.

YEAR.	BROOKLYN.	HEMPSTEAD.
1896.....	39.51	29.64
1897.....	41.10	46.41
1898.....	47.96	21.02
1899.....	49.11	45.00
1900.....	48.91	41.41

STORAGE.

RESERVOIR.	JANUARY 1, 1900.		JANUARY 1, 1901.	
	Depth.	Contents.	Depth.	Contents.
Ridgewood, Basin No. 1	15.43	55,044,200	11.41	28,024,600
Ridgewood, Basin No. 2	15.64	83,239,500	11.94	44,551,500
Ridgewood, Basin No. 3	11.91	101,773,500	9.27	66,768,900
Mount Prospect	19.09	10,171,500	11.64	11,039,000
New Lots	9.65	3,097,000	10.80	3,234,000
Total (City)		249,225,000		174,794,000
Hempstead	4.00	91,000,000	3.62	34,930,000
Total savings		158,225,000		200,733,000

It has not been possible to obtain the depth of water and corresponding storage in the New Lots Reservoir on January 1, 1900, as it was not in possession of the City at that date; its contents at that time, however, have been assumed to be the same as on May 1 of the past year, when our records began. A comparison of the storage at the beginning and end of this year shows a total depletion of about 126,500,000 gallons, corresponding to an average daily loss of nearly 350,000 gallons for the entire year. The amount stored in the Hempstead Storage Reservoir on the 1st day of January last is less than that of the same date of any previous year since this basin became an important feature in the maintenance of the summer supply.

DISTRIBUTION.

During the year there has been laid a total of 52,808 linear feet of 6-inch, 8-inch and 12-inch pipe for extension of the distribution; on these lines there have been set 121 gates and 179 hydrants, details of all of which are shown in the accompanying table. Changes have been made from time to time in the arrangement of the High Service to meet the shortage of the supply and conditions arising during the operation of the works. Last spring a connection was made between the Tower force main and the 12-inch distribution pipe on the Eastern parkway, so that the section along the parkway of high elevation could be supplied directly from the Low Service; at the same time a portion of the Mount Prospect Reservoir service was put on the Low Service system that the Mount Prospect supply might be reduced to the capacity of one pump while the other was being repaired; the former change resulted in a great and much-needed improvement in the service in the section thus supplied, but had to be discontinued a little later in the season and the pressure reduced to the Reservoir service that the consumption might be checked; the latter change has in part been kept in force, a small portion, however, having been again restored to the Mount Prospect service owing to the low pressure obtained from the Ridgewood Reservoir. After having adopted all possible means of reducing the consumption, such as cutting off the steamboat service, shutting off waste in public schools, stopping all fountain displays, and discontinuing street sprinkling, and having practically exhausted the storage in our Ridgewood reservoirs, it became necessary to shut off a portion of the supply; this was done on September 27, when the East New York avenue main, which was completed in 1896 and first put in service in February, 1897, was cut off; this main was made for the purpose of supplying the South Brooklyn section and was cross-connected with the old Atlantic avenue main at Albany avenue and at Howard avenue; the section thus cut out of service received its supply in part from the Gravesend Station, in part from New Utrecht, and in part from the other large distribution mains from the Ridgewood Reservoir, but, of course, at a much lower pressure; the increased draught thus caused on the mains remaining in use diminished the pressure over adjoining portions of the city, but the great suffering was experienced in the South Brooklyn section. This main was again restored to service on December 12, after being out of service for a period of 76 days; the effect of having cut it out of use was to reduce the Ridgewood consumption to about 70,500,000 gallons daily, or about 7,400,000 gallons daily less than the average for the year; at the same time the Gravesend pumping increased about 600,000 gallons and the New Utrecht about 150,000 gallons daily more than the yearly average; the total daily supply for the Ridgewood, Gravesend, New Utrecht and New Lots systems during the entire period averaged 88,373,110 gallons, or about 7,200,000 gallons daily less than that of the entire year. Additional connections have been made between the Gravesend and Ridgewood systems by an 8-inch pipe laid by the Park Department along Avenue I, Gravesend avenue and Twentieth avenue to Fifty-second street, connecting the 6-inch pipe on the Gravesend system with an 8-inch on the Ridgewood service; the pipe for this work was furnished by the Department of Water Supply and the line was intended primarily to relieve the fluctuations caused in the Gravesend service by the hydrant draft required by the Park Department for the Ocean parkway. The Gravesend and New Utrecht systems are now so arranged that they may be connected or disconnected from the Ridgewood service, as desired, the gates, however, usually being open; this latter condition enables us to get a more uniform service from both of the pumping stations, the larger mains of the Ridgewood system acting in the capacity of a stand-pipe. Plans and specifications have been made during the year for connecting up dead ends in the distribution system, for replacing all of the small pipe laid prior to 1867, and for a work-shop at the Coney Island Repair Yard. During the year there have been driven 2,020 taps, while 69 have been drawn, leaving a total of 113,708 taps in use at the close of the year. There have been set during the year 559 meters and 54 meters have been removed, leaving a total in use at the close of the year of 3,460. The following is a record of the meter readings and receipts for the period between January 1, 1895, and the close of the year 1899:

YEAR.	GALLONS METERED.	METER REVENUE.
1895	3,708,174,000	\$261,374 04
1896	4,093,190,750	372,925 55
1897	3,917,444,100	415,774 78
1898	3,257,694,000	384,103 93
1899	4,684,396,400	466,407 12
Total	19,660,699,250	\$1,999,535 38

These accounts include metered water at 7½ cents per 100 cubic feet as used for manufacturing, together with other water which is metered and used for other purposes; the latter, however, is a comparatively small amount. It will thus be seen that the total meter reading is practically accounted for by the revenue. It will not be possible for some little time to obtain the summation of the meter readings for the year 1900, so that the comparison for the last year is necessarily omitted here.

PUMPING STATIONS.

At the Mount Prospect Station the Reservoir and Tower Service of pumping has each increased about 100,000 gallons daily for the year and the need of an additional pumping engine for the high service, which has many times been reported upon, has correspondingly increased. Work on the erection of the new steel stack for this station was begun on January 30, and was completed on March 15; this stack is 48 inches in diameter and 125 feet high. A blow-off drum was installed during the year to prevent live steam from entering the sewer and at the same time to utilize waste heat from the traps. The steam pressure in boiler No. 2 having been cut down by order of the Boiler Inspector to such an extent as to seriously interfere with the operation of the station, and no money being available for the erection of a new boiler in its place, arrangements were made early in the summer for renting a boiler until such time as new and adequate boilers could be installed; this boiler is second-hand, 100-horse power and locomotive type; it has been set up in the yard and a temporary shed built over the same; at the present time the amounts paid and due the contractor amount to a total of \$1,335, or a great deal more than the boiler is worth. In addition to this increased expense of operation, the low boiler efficiency causes a very noticeable increase in the coal consumption. The cornices, roofs, doors and windows of the engine-house have been painted, the grounds paved around the stack, and the Engineer's house put in good repair. The Gordon cells used for the operation of the secondary dials of the Venturi meters have been replaced by storage batteries, which are giving much better results. The new valve plate for No. 1 engine has just been furnished and will be put in place at the first opportunity. New grate bars are needed for boilers Nos. 1, 3 and 4.

The average daily pumping for the year at the Gravesend Station has exceeded that of 1899 by about 500,000 gallons. Most of the pumping is done with the old Dean engine, which cannot be shut down on account of the No. 2 engine at this station having a capacity of but 2,000,000 gallons daily, the No. 1 (Dean) has to be maintained in service constantly, and has never been thoroughly overhauled since it was first installed, about 13 years ago. Plans and specifications have been prepared for remodeling the building and making necessary improvements in the same.

Thirty of the wells of this station were tested, and one of them was pulled for examination; they were all found to be in excellent condition.

At the New Utrecht Station the average daily pumping has increased about 800,000 gallons over that of last year. The steam pressure of No. 2 boiler was reduced in November by the Boiler Inspector to such an extent as to seriously interfere with the operation of the station. A contract has been made with P. J. Donohue & Sons for a new one to take its place; the shell of this boiler will be 60 inches in diameter, and its length 14 feet. The other boilers will probably have to be replaced very shortly. Work on the suction-main for the forty 2-inch wells at this station was completed early in the year, and this addition to the supply brought into service in January. The wells are each 35 feet deep with a 5-foot galvanized wrought-iron strainer, covered with brass screens. Under special tests each well was found to yield about 45 gallons per minute when pumped alone. The laterals leading from the main suction line to the wells are about 28 feet long with two wells connected to each lateral. A 6-inch wrought-iron suction pipe, with foot valve and strainers, was laid from the open well to the condenser and another line of the same size pipe was laid as a blow-off line from the boilers.

The last one of the three new Worthington engines of the Ridgewood Pumping Station, on the north side of Atlantic avenue, was tested for capacity and duty for ten days, between January 17 and 27, at which time the average duty was 134,394,383 pounds per 1,000 pounds of steam, and the capacity was 21,041,326 gallons at the normal contract speed, the latter determination being made by weir measurement; the bonus earned by the three engines together, under the terms of the contract, was \$23,506.28. A total payment has been allowed the contractors of 90 per cent, on Section No. 2, comprising the boiler house and boilers, 90 per cent on engines Nos. 1 and 2, and 80 per cent on engine No. 3. A new foundation for the accumulators of engines Nos. 1 and 2 has been built and the accumulators set thereon so that they line up with the one used for engine No. 3, greatly improving the appearance of the plant. On June 20, 21 and 22 an additional series of tests were made of the whole plant for the purpose of determining the most efficient way of operating the same. The foundation of Engine No. 1 was cut away by the contractors during the year and a new foundation built, the old one having become badly cracked; small cracks have appeared in the new work next to the piers, but they are not increasing, and the engine has shown no signs of settlement. Two of the engines of the new plant have been in use practically throughout the entire year, one of them being out of commission at a time for such repairs and alterations as have been necessary. Solid plungers have been substituted for the packed pistons at the jacket tank pumps. Old Dean engine No. 3 has been used quite steadily most of the year, steam being supplied by the Davidson boilers, or by the west side plant alternately. The Davidson engines (No. 4) have been used for about a quarter of the time during the year and have been held in readiness to start at any time when they might be required. They have been repaired in minor particulars and as necessary, but the water cylinders and pistons will need overhauling during the year. The steam pipe line of the new Morris boiler plant has been thoroughly overhauled, so that it is now in good condition. A ventilating fan has been added to the equipment of the boiler-room and the working conditions thereby greatly improved. The north and south side batteries of the Morris boiler plant have been operated alternately, one side being cleaned and repaired while the other was in commission. A new blow-off pipe line has been run under each battery, the lines joining at the east end, whence they are carried to a blow-off tank. The feed pipe line proving too light, was replaced by a new one, double-gated to each one of the boilers. The phosphor bronze and machine steel piston rods for the feed pumps not proving satisfactory, have been replaced by a rod of tool steel, which has since given satisfaction. Flinn steam traps have been substituted on the drain pipe lines for the Geipel, formerly used. Four of the boilers (Nos. 1, 3, 5 and 6) began to pit and scale badly, especially on the corrugated flues, while a fifth (No. 7) remained in good condition; this latter had been equipped with an electric purifier and its protection is attributed to the use of this attachment. The west side boilers and Davidson boilers have been repaired as necessary, three of the latter having been re-tubed, while new tubes have been ordered for the balance. The tin roofs of the main engine-house, No. 3 boiler-house, and Morris boiler-house have been repaired and painted, the latter receiving two coats of Dixon's graphite paint. A glass ventilator was added to the main engine-room. The pump-room has been ceiled with yellow pine and a ventilator added. Some progress has been made in the provision of a proper flooring for the main engine-room, the columns for the floor beams having been set early in the year and castings are now being made for the edgings, after which iron floor plates will be made and set. Work on repairing the doors and panels on the north side has just been started.

The five Worthington engines of the south side Ridgewood Station have been used as required during the year and kept in good repair; engine No. 49 has only been moved as required to keep it in working order. A Burden iron band "14 x 4" was successfully shrunk on the No. 1 side of the water cylinder of No. 1 engine to repair a crack and the cylinder is now perfectly tight. The jackets of Worthington engine No. 3 have been fitted with Flinn traps and preparations are being made for steam connections for engine No. 4. The guides to the air pump rods of all of the Worthington engines have worn considerably and will probably have to be renewed. New heavy gates have been ordered for the jacket steam-pipes of all of the engines and after they have been set it will not be necessary to shut off steam at the boilers as at present. The Bigelow boilers have been run more than desirable to replace the Strong battery, which was out of commission for repairs a part of the year. An electric purifier has been successfully used on boiler No. 21. The tubes of the other boilers will shortly have to be cut out and the shells patched. Of the Strong battery, No. 28 was found to be badly pitted on the corrugated flues and on inspection by the Police Department was condemned; this has been repaired and placed in excellent condition by adding two new flues and new tubes; when this work was done the circulating plates were taken out, resulting in an improvement. Similar work to this was done on Nos. 27 and 30 and will shortly be taken up on No. 29. The building used for the installation of the No. 49 engine is very unsatisfactory, and if the engine is to be utilized a proper house should be built. The grounds around the station were graded during the year and when opportunity presents a fence will be placed around the same.

During the year a 7 x 10 inch Woodbury engine was installed in the shop, where it was badly needed. A new yellow pine floor has also been provided, and we now have a very good equipment at this station. The coal conveyors of both the Ridgewood stations have given good service during the year, although a few minor repairs will be required to the one on the south side. New steel shoes were fitted to the curve on the north side. The electric light plant is too small and overloaded. Plans have been made for rewiring the engine-house on the north side but as yet no work has been done. Storage batteries have been substituted for the Gordon cells used for operating the secondary dials of the Venturi meters, and the results now obtained are much more satisfactory.

The New Lots Pumping Station, together with the distribution system of the Twenty-sixth Ward, came into the possession of the City on April 9, thus closing the condemnation proceedings for the acquirement of this plant, which has been before the courts for many years. The pumping station equipment was in poor condition and has required many repairs. A wrought-iron stack 52 inches in diameter and 76 feet high, which was owned by the City and proposed for other service, was erected on a brick and stone foundation and the tops guyed and four sides with ½-inch steel wire rope, connecting with it at a distance of about 25 feet below the top. An extension has been built to the boiler house, lengthening it out in an easterly direction about 13 feet; this extension is about 41 feet wide, or the same as that of the old room, and closes in the back of the boilers. The floor was concreted and a door cut through from the old boiler room. This work, excepting only the trucking and erection of the stack, has all been done by our own force. No. 2 boiler was badly pitted and subsequently was condemned by the Police Department; to take its place a new boiler 16 feet long and 60 inches in diameter has been contracted for and will be set at an early date; it is more than likely that the other boilers will also soon have to be replaced. A Cochran open feed heater with the Sorge purification system will shortly be installed. The duplex pump has been overhauled and put in good condition, and it is proposed to change the two plunger pumps so that they may be operated duplex. A 6-inch Austin relief valve was placed on the delivery main so that the reservoir could be cut out of service and the station run with a direct pressure. A Locke damper was connected to the main flue, and steam and water recording gauges added to the equipment. An arrangement has been made for securing proper fire service at the station. The whole steam piping system will have to be rearranged, as will also the feed and exhaust piping to make the proper improvements contemplated. Four 2-inch test wells have been driven for measuring the underground water levels, two near each end of the main lines; these wells are 36 feet deep and have 4-foot strainer points. Eleven of the 6-inch wells have been cleaned and pumped clear; these have 4½-inch suction pipes, and range from 62 to 75 feet deep; after cleaning each yielded about 300 gallons per minute. A new 5-inch deep test well was sunk to a depth of 38 feet; a bed of solid blue clay 7 feet thick was found at a depth of 115 feet; a reddish-brown and yellow sand and gravel was found below the clay, with some streaks of hard pan; at 258 feet a boulder or rock was encountered and the pipe will be pulled back to the first water-bearing stratum. A survey has been made of the station to identify the land for the purpose of taxation. The work of the station has been partially repaired and closers built for the engineers and firemen; the window-sashes, frames and wainscoting have been painted. Under the old system of operation, engineer's quarters were provided in the upper floor of the pumping station; this use should be discontinued and a new and proper house erected for the purpose.

The Spring creek plants have been run continuously throughout the year. The engines of the temporary plant have been patched up as required, but should be replaced with new ones, and those of the old plant need considerable repairs. The boilers of the temporary plant have continually given trouble and have been thoroughly overhauled and new smoke-stacks provided. The results obtained with an Anknopite furnace installed on one of the boilers of the old plant have not been satisfactory. The easterly wall of the engine room was found to be unsafe early in the season, when two I beams were extended over the boilers to take the load from the roof, and the easterly wall taken down and rebuilt throughout a greater portion of its length.

The one hundred 2 inch wells of the old station have been pulled up, cleaned and redriven during the year, new points being furnished in almost every case; these wells are from 30 to 40 feet deep and yielded, after cleaning, about 40 gallons per minute each and under individual test. The 8-inch deep wells Nos. 7 and 8, and the 6-inch deep well No. 3 have also been cleaned and pumped clear, when they yielded about 250 gallons per minute each. The adverse decision rendered by the Court of Appeals in the Forbell suit for damages to crops owing to the operation of the Spring Creek Pumping Station, and the asserted lowering of the underground water in consequence thereof, will greatly embarrass this Department in endeavoring to develop the driven-well stations, since it opens up the doors to claimants of all kinds, each of whom ask for large sums to reimburse them for alleged similar damage. Anticipating this, a map is now being made of property adjoining the Spring Creek Station, and other data, which will be of future value, is being obtained.

The Smeticket plant was shut down for a short time in the Spring, since when it has been run continuously. A new Locke damper has been provided for the station and the smoke-stack painted.

The Oconee Station was cleaned and overhauled in April, when the boiler setting was pointed, a new Locke damper provided, and a new smoke-stack erected. In November the plant had to be shut down again for a few days to repair the furnace. The 8-inch wells, Nos. 13 and 14, have been cleaned, and their yield increased to 300 and 200 gallons per minute respectively; these wells are 194 feet 4 inches and 192 feet deep. The 8-inch well, No. 13, was pulled entirely up and driven again at a point 27 feet further back from the main, a new location being selected, as the earth around the old well had caved from the surface; this well, as finished, is 193 feet deep and yielded 450 gallons per minute.

The Baisleys Station has been operated sixteen hours daily throughout the year. The No. 2 Engine was repaired at Ridgewood, other than which only minor repairs have been required. The wooden floor of the coal-shed has been replaced by flagging and a new runway built to the fire-room. Seventy of the 2-inch wells have been pulled up, cleaned and redriven with new points; these wells are about 35 feet deep and yielded about 40 gallons per minute each.

Early in the year connections were made at the Jameco Station, so that the pond supply could be drawn upon if its use should become necessary to prevent a water famine; at the present time, however, this connection has not been made use of. The boilers have been thoroughly overhauled during the year, and considering their age are in good condition. Eighty-eight of the 2-inch shallow wells have been pulled up, cleaned, equipped with new 5-foot points and redriven; they are about 32 feet deep and the average individual yield was about 42 gallons per minute. Nine of the 8-inch wells on the west side of the engine-house, ranging in depth from 154 to 170 feet, were also cleaned and their yield increased from 175 to 300 gallons per minute; one of the 8-inch deep wells of this plant had to be pulled up and sunk in a position about 30 feet further back from the main, the clay around the same having settled; this well is 151.25 feet deep and yielded, on test, 500 gallons per minute.

The necessity of keeping the Springfield Station in continuous operation and lack of duplicate capacity has prevented making necessary repairs during the year other than those of a minor character. The Engineer's house has been painted and the chimney rebuilt.

Forest Stream Pumping Station is in a very good condition. The outside of the coalshed and a portion of the pumping station has been repainted, the roof of the coalshed and store-house repaired, and an extension built to the engine-house for use as a workshop and store-room. Ninety-six of the 2-inch wells have been pulled up, cleaned, provided with new 5-foot points and redriven; these wells are about 35 feet deep and under individual test yielded about 45 gallons per minute each.

The boilers and engines of the Clear Stream Station are in good condition, but the air and feed pumps need repairs. A new 2 1/2-inch feed pipe has been laid to connect with the conduit, the old one having become stopped up. The coalshed, storehouse and part of the exterior of the pumping station have been painted and minor repairs made in the woodwork. All of the 2-inch driven wells, 150 in number, have been pulled up, cleaned, provided with new points and redriven; they are about 36 feet deep and under separate test yielded about 48 gallons per minute each.

In November last the boiler tubes of the No. 1 boiler at Watts Pond gave out, and when they were removed for repairs it was discovered that the crown sheet was pitted to such an extent that the boiler was condemned by the Police Department; it has since been equipped with new tubes and a new bottom sheet and is now again in service. When these alterations were made the blow-off was changed to the back end and other improvements begun, which are now nearly finished; it is more than likely that the second boiler is in as poor condition as this was. The remainder of the plant is in fair condition. A new floor has been laid in the engine-room and a Locke damper regulator installed.

The Smith's Pond Pumping Station pumps were thoroughly overhauled in December and necessary repairs made. The boiler furnaces were relined and new dead plates, bearing bars and Tupper gates, provided.

The Millburn Pumping Station has been kept in repair and is now in good condition, excepting only the need of reboiling water cylinders. The east side battery of boilers has been thoroughly overhauled and a new set of grates provided. The electric-light plant has finally been put in working order, woven wire brushes having been substituted for the carbon brushes of the dynamo; it is giving fair satisfaction, but is too small for the service. The east chimney was struck by lightning last June and damaged to such an extent that the upper 25 feet had to be taken down and rebuilt.

The Agawam, Merrick, Matowa, Wantagh and Massapequa Driven Well Stations have been operated, as already noted, and have been repaired as necessary. Three of the Agawam boilers were covered with asbestos, new patches made around the water legs and new tubes provided. All of the smoke-stacks were painted with Dixon's graphite paint and all are in good condition, excepting the one at Matowa, where the top of one has been blown off by the wind. The measuring weirs are leaking badly and need extensive repairs or rebuilding. The floor of the Merrick Pumping Station is in bad condition, and this, together with the foundation, will have to be thoroughly overhauled. During the coming spring, when these stations will probably be out of service, the machinery will be put in good condition for use during the next dry season. Fourteen of the 1 1/2-inch wells at Matowa have been tested and two of them pumped clear and again restored to use; five more have been pulled up and the perforated brass screens on the strainers found to be corroded and broken; the yield of these wells and those at Massapequa and Agawam has fallen off very materially and they will have to be cleaned during the coming season.

Frequent complaint from the smoke occasioned by the use of soft coal within the city has led to the substitution in the contract for the year 1901 of broken anthracite coal for the soft coal previously used at Ridgewood and at Spring creek. The contracts have recently been let to Messrs. A. M. Wittenberg and Rudolph Reiner for the semi-bituminous and anthracite coals respectively. This change will result in increasing the expenditures for coal during the coming year.

RESERVOIRS, PONDS AND CONDUITS.

Mount Prospect Reservoir and Standpipe.

During the Spring the lower joints of the masonry shaft inclosing the water-tower and the joints of all of the walls of the approach were raked out as necessary and repointed with Portland cement; this work had never been thoroughly done since the masonry was first erected and at points the walls were in very bad condition. At the same time the cement walks of the approach, which had cracked and settled, were thoroughly patched and repaired; this work has not proven satisfactory, great difficulty having been experienced in making a good bond between old and new work; to do this work properly all of the old walk should be taken up, the foundation leveled and the walk rebuilt entire. As soon as this was finished all available masons and laborers were employed upon the repairs of the inner lining of the reservoir, additional men being put on the pay-rolls for this purpose; all of the brick which had cracked were cut out, and joints which were opened entirely closed up; this work was carried from the top of slope down to a point about 3 feet below high-water line. On its completion the upper portion was given a coat of cement paint to cover the patches and to harmonize with a coat which had previously been applied; the appearance will probably be greatly improved and the work become more effective if some suitable asphalt paint were used for the purpose. Plans and specifications were revised during the year for a new fence and gate at the approach to the tower and for repairs to the old fence, which work was placed under contract and is now nearly completed; the old fence has been relined throughout its whole length and the ornaments restored in all places where their absence was conspicuous; the new fence and gate at the approach is nearly ready to be put up, the work having been seriously delayed owing to the financial embarrassment of the contractor, his assignment of the contract, and the subsequent going into bankruptcy of his assignee. The slopes of the reservoir adjoining the Eastern parkway had never been dressed and their condition was such as to prevent any attempt to keep them in order until they had been graded; a contract was made for properly grading the lower half of this slope, for sodding the same, and for suitably preparing a trench for hedge along the toe; this work has been satisfactorily completed and the upper portion of the slope should now be similarly dressed; the latter work was not done at the time owing to the lack of money to carry the whole plan into execution. A privet hedge has been set out along the parkway and has been fenced in with a light wire to prevent injury during the early stage of its growth; in the course of two or three years this will become quite a barrier to keep out intruders. As soon as the gate has been placed at the approach the grounds can be thoroughly secured at night and should enable us to dispense with the services of one of the Watchmen. An effort was made early in the season to secure the co-operation of the Park Department in an attempt to beautify the reservoir grounds and to render the same more in keeping with the adjoining park lands; for this purpose the Park Department was informally asked to furnish the necessary plants and shrubbery and it was believed at the time that the request would be granted; failure, however, to secure the expected assistance from them has deferred this work, which should be undertaken at an early date. The exterior walls of the gate-house have been scraped and carefully repainted, changing the old dead

colors formerly used to brighter tints and making the structure stand out in sharper contrast, presenting a decidedly better appearance than heretofore. On September 28 the inner screen of the inlet to the distribution pipes at this reservoir was raised for the first time in about fifteen years; its location is such that it cannot be cleaned nor conveniently raised; it was found to be coated with pipe moss and organisms, the thickness ranging from 3/4 inch to 1 1/4 inch, and averaging about 1/2 inch; there were probably about fifty openings through this mass of an average of about 1/4 inch in diameter. It will be a difficult matter to properly arrange the screens at this point, except by carrying a very low depth of water in the reservoir and seriously interfering with the supply, but when the work can be taken up existing conditions should be materially changed. The present system of cleaning the screens with wire brushes and under the water allows a considerable portion of the material collected to pass through the screen and into the distribution pipes; when the system is rearranged, this likewise will have to be changed. At present the screen where trouble was experienced has been pulled up far enough to close the opening, which would otherwise exist, and allow water to be admitted into the delivery pipes without screening, but otherwise it is out of service.

Ridgewood Reservoir.

Basin No. 1 was partially emptied in March to allow rabbits for the screens to be cut in the masonry at the efflux chamber; at the same time a box was set in position for measuring the elevation of the water and the gate rods of the efflux chamber were straightened. A similar arrangement for measuring the elevation of water in the reservoir was placed in Basin No. 3, so that all three basins are now properly equipped for this purpose. In the fall, when the reservoir was again depleted owing to the scarcity of the supply and requirement for consumption, the concrete slope walls of Basin No. 3 were thoroughly repaired as needed. The terra cotta tiling on the roof of the Venturi meter-house, requiring constant care and repair, has been replaced during the year with steel shingles. A new road has been built up the southerly slope of the reservoir, leading past the meter-house and proving of great convenience. Repairs have been made to the coping around Basin No. 2 and the fence around both Basins Nos. 1 and 2. The heads of the manholes over the gates on Cypress avenue have been lowered to the correct street grade. The shanty on the south side of Basin No. 1, which was used as a shelter when making weir measurements, was taken down and stored and the wooden covering over the weir removed.

New Lots Reservoir.

This reservoir needs cleaning very badly, owing particularly to the growth of algae. Last summer, when drawing from this basin for the supply of the district of which it forms a part, large numbers of organisms got into the taps of the consumers, causing great complaint and considerable suffering. A vertical air-vent pipe has been placed on the force mains to relieve the mains, so that the reservoir may be cut out of service as desired, and plans have been made for connecting it directly with the East New York avenue main and the Atlantic avenue main of the Ridgewood Distribution System.

Hempstead Storage Reservoir.

The capacity of the Hempstead Storage Reservoir has been determined from the surveys of 1899 as 841,000,000 gallons when full. The computations enable us to accurately determine the amount of storage at all important points of our system. The by-pass around the reservoirs has been shut off during the entire year, so that all of the Hempstead supply has been utilized; a new coping has been set on the wall of the by-pass intake.

Supply Ponds and Conduits.

Repairs have been made to the upper and lower bridges of the Wantagh Supply Pond, and a bridge has been built across the weir of the Massapequa Lake. The Hempstead stream has been cleaned. The work of fencing the conduit lines has been continued and some of the culverts have been cleaned. The stream inspection and patrol has been maintained as usual, and a detailed report made to the Health Department concerning all of the principal nuisances existing on the watershed.

Test Wells.

The necessity of thoroughly overhauling all of the existing stations for maintaining the required supply has kept the force busy during the entire year, so that little time has been available for continuing explorations begun in 1894. At Kouwenhoven's, on the Paerdegat creek, near the line separating the Twenty-ninth from the Thirty-second Wards, tests have been made with a view of developing an additional station within the City limits; five 2-inch wells were sunk to depths ranging from 49 to 83 feet, showing a maximum yield per well of 52 gallons per minute and a minimum of 20 gallons; the wells have all been pulled up.

LABORATORY.

The work done in the Laboratory during the year has been as follows:

Water Analysis.

Number of samples received .....	2,707
Physical examinations .....	1,974
Chemical analyses, complete .....	610
Chemical analyses, partial .....	793
Microscopical examinations .....	853
Bacteriological examinations, quantitative .....	2,574
Bacteriological examinations, qualitative .....	2,302

Miscellaneous Samples.

Coal samples tested .....	51
Oil samples tested .....	43
Asphalt samples analyzed .....	7
Boiler scales analyzed .....	5
Bricks tested for absorption .....	18
Boiler compound analyzed .....	1

Well Waters.

The wells on the new watershed have increased slightly in albuminoid ammonia and free ammonia, but they are all of excellent quality. The deep and shallow wells at Jameco have contained less chlorine but rather more iron than for the past two years. The water at Smeticket has slightly deteriorated, although the change is less marked than it was in 1899, the average of chlorine for the former year having been 246 parts per million, while during the last year it was 230. At New Utrecht the quality has been more influenced by sea water than at any other station, the chlorine increasing from March 2 to April 9 from 14 to 60 parts per million; between April 9 and October 2 it ranged from 47 to 80, and on November 17 it reached 120, since which time there has been a slight decrease. The water from the New Lots Pumping Station is characterized by high nitrates and hardness. The most important organism present in the well waters during the past year was chlamydomonas, which was most abundant during October, but in general the organisms have been less abundant than during previous years.

Surface Waters.

Most of the supply ponds in use contained but few microscopic organisms, and these not in large quantity. At Hempstead storage reservoir the organisms have been more abundant than during the two previous years. During the summer and autumn months the water contained several thousand melosira per c.c., the maximum occurring on October 15, when 10,320 were present. Eudorina, pediastrum, scenesmus and clathrocystis were also abundant. In Baisley's pond clathrocystis has been present in greater quantities than in previous years, the aggregate number reaching 88,000 standard units on September 28. The same geographical distribution of coli communis was observed as during 1899, the largest number of positive tests having been obtained in Hempstead stream and Springfield pond. A comparison of the results of 1900 with those of the previous year in the former location is as follows:

	PER CENT. OF POSITIVE TESTS.			PER CENT. OF POSITIVE TESTS.	
	1899.	1900.		1899.	1900.
Jackson street .....	4	2	Intake of by-pass .....	34	20
Franklin street .....	37	46		Storage reservoir .....	5

The seasonal distribution of the positive tests obtained in the supply ponds is shown as follows:

	PER CENT. OF POSITIVE TESTS.			PER CENT. OF POSITIVE TESTS.	
	1899.	1900.		1899.	1900.
January .....	..	10	July .....	13	21
February .....	8	..	August .....	9	4
March .....	25	9	September .....	8	11
April .....	20	10	October .....	4	8
May .....	31	8	November .....	10	18
June .....	12	10	December .....	2	3

Distribution Reservoirs

The supply entering the Ridgewood basins has been less turbid than in previous years, and the vegetable odor has been less marked...

Table with 4 columns: Organism, Ridgewood Basin No. 1, Ridgewood Basin No. 2, Ridgewood Basin No. 3, and No. Prospect. Rows include Asterionella, Cyclotella, Melosira, Synedra, Diatomea, and Cladocystis.

Tap Water.

The physical condition of the water in the distribution system was in some respects better than during 1898 and 1899; this statement applies particularly to the odor. The striking feature in making a comparison of the chemical analyses with that of previous years is the increase in chlorine.

Private Supplies.

The supplies of the private water companies in the boroughs of Brooklyn and Queens have been analyzed as heretofore and present no important differences from those previously recorded.

Cement Laboratory.

During the year one of the basements of the Mt. Prospect gas-house has been fitted up for the testing and analysis of cement; this room has been ceiled in yellow pine and a concrete and cement floor laid.

WORKS FOR IMPROVING AND INCREASING THE SUPPLY.

On November 24 last a detailed report, of which copy is appended hereto, was presented, discussing the different recommendations that had been made for the improvements and extensions required for the proper maintenance of and addition to the supply.

On October 2 bids were opened for the mechanical filter plants for Baisley's and Springfield ponds. The original estimate of cost for these works was \$137,500, and afterwards increased to \$150,000.

On November 1 bids were opened for the 48-inch pipe conduit from Millburn to Spring creek; six bids for this work were received, ranging as follows:

Table with 2 columns: Bidder Name and Bid Amount. Bidders include Thillemann-Smith Company, Nassau Construction Company, W. V. Crawford, Daniel J. Green, John McNamee, and William H. Masterson.

The contract was awarded to Mr. William H. Masterson, the lowest bidder, but has not yet been certified by the Comptroller. No other action has been taken during the year to authorize the construction of or to secure bids on any other of the improvements required.

Appended hereto are tables showing the usual details relating to the consumption and work done during the past year. I regret to record the death during the year of several of our employees. We lost Mr. Peter C. Jacobsen, a former representative of William D. Andrews & Bro., who held the earliest driven-well stations of our system and later entered the service of this Department.

Summary of Average Daily Consumption for Each Month for Each System, 1900.

Table with 9 columns: Month, Ridgewood Low Service, Baisley Reservoir Low Service, Baisley Reservoir High Service, Total Ridgewood System, Baisley and Springfield, New Lots and 59th St., New York System, and Total Supply. Rows list months from January to December and an average for the year.

Number of days in use January 1, 1901, 337.78.

Depth and Quantity of Water in Storage, Ridgewood and Mount Prospect Reservoirs, and Average Amount Pumped at Ridgewood.

Table with 10 columns: Year, Average Depth, U. S. Gallons, Average Depth No. 1, Average Depth No. 2, U. S. Gallons, Average Depth, U. S. Gallons, Average Depth, U. S. Gallons, and Date Average U. S. Gallons Pumped at Ridgewood. Rows list months from January to December and an average.

Monthly Record of Rainfall at Brooklyn and Vicinity from 1891 to 1901.

Table with 15 columns: Year, Jan., Feb., March, April, May, June, July, Aug., Sept., Oct., Nov., Dec., Total, and Remarks. Rows list years from 1891 to 1900.

Monthly Record of Rainfall at Hempstead Storage Reservoir, from 1891 to 1901.

Year.	Year.												TOTAL.
	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	
1891	3.31	3.28	3.30	3.84	5.09	6.28	9.00	4.19	3.04	7.47	6.28	3.68	39.49
1892	5.09	4.08	4.37	5.51	7.25	7.77	7.49	4.28	4.73	6.46	6.09	4.66	52.75
1893	4.28	5.71	4.31	4.79	4.19	6.71	4.44	4.77	6.67	7.25	3.38	4.57	59.64
1894	5.79	3.50	4.87	5.14	5.17	6.59	6.43	4.79	4.79	7.25	3.33	4.77	56.88
1895	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90
1896	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90
1897	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90
1898	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90
1899	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90
1900	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	50.90

Water-mains Laid, Gates and Hydrants Set, to December 31, 1900.

	Year.	Year.												TOTAL.
		1/2-INCH.	3/4-INCH.	1-INCH.	1 1/4-INCH.	1 1/2-INCH.	2-INCH.	3-INCH.	4-INCH.	6-INCH.	8-INCH.	10-INCH.	12-INCH.	
<b>Water-mains Laid.</b>														
Total to December 31	1900	39,470	54,710	10,260	1,170,070	35,414	2,139	286,392	19,601	399,919	1,713,000	35,095	27,971	
During	1899	.....	.....	.....	.....	.....	.....	524	.....	6,331	1,609	.....	1,609	
During	1898	.....	.....	.....	.....	17,152	.....	26,435	.....	45,338	14,237	.....	14,237	
During	1897	.....	.....	.....	.....	.....	.....	14,447	.....	35,260	4,237	.....	35,260	
Total before	.....	39,470	54,710	10,260	1,170,070	47,667	2,139	307,000	19,601	572,915	1,737,415	35,095	27,971	
Total miles	.....	12.834	16.214	2.412	25.059	9.499	0.098	50.282	3.712	103,370	399,000	10,472	64,716	
<b>Gates and Hydrants Set.</b>														
Total to December 31	1900	17	17	29	180	9	7	439	7	950	3,007	28	6,312	
During	1899	.....	.....	.....	.....	.....	.....	2	.....	24	7	.....	33	
During	1898	.....	.....	.....	.....	24	.....	89	.....	102	62	.....	177	
During	1897	.....	.....	.....	.....	.....	.....	93	.....	63	35	.....	191	
Total	.....	17	17	29	180	24	7	491	7	1,139	3,111	28	6,513	

Meters in Use December 31, 1900.

Name.	Year.										Total.
	1/2-INCH.	3/4-INCH.	1-INCH.	1 1/4-INCH.	1 1/2-INCH.	2-INCH.	3-INCH.	4-INCH.	6-INCH.	8-INCH.	
Crown	75	67	98	68	203	23	12	1	.....	.....	1,284
Wardham	119	99	99	108	114	79	29	.....	.....	.....	819
Thompson	447	50	109	46	42	71	28	7	.....	.....	760
Trident	194	47	31	90	17	4	8	1	.....	.....	306
Nash	44	7	10	4	.....	.....	.....	.....	.....	.....	63
Gem	7	.....	4	.....	200	23	12	.....	.....	.....	196
Heavy	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
Middlebrook	11	6	3	1	.....	.....	.....	.....	.....	.....	11
Total	1,113	176	243	247	480	125	74	17	.....	.....	3,400

Meters Set during the Year 1900.

Name.	Year.										Total.	
	1/2-INCH.	3/4-INCH.	1-INCH.	1 1/4-INCH.	1 1/2-INCH.	2-INCH.	3-INCH.	4-INCH.	6-INCH.	8-INCH.		
Worthington	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crown	10	7	3	.....	.....	.....	.....	.....	.....	.....	.....	20
Thompson	69	48	31	8	41	3	2	.....	.....	.....	.....	161
Trident	29	19	17	5	8	.....	.....	.....	.....	.....	.....	78
Nash	11	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	18
Gem	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	110	60	75	10	46	10	2	.....	.....	.....	.....	243

Showing Number of Permits, Repairs, etc., from October 1 to December 31, 1900.

1900.	LEAKS IN DISTRIBUTION.								Total.	Drawings - Hydrants Repaired.	Fire-hydrants Re-paired.	Leads Repaired by Tappers.	Premises Cut Off.	Taps Inspected.	Complaints of Violations.	Permits for Extension.	Permits for Old and New Buildings.	Permits for Cement Sillwalks.	Stop-cocks Reopened.	Streets Opening Var-ious.	Special and Temporary Taps.	Accommodation Per-mits.	Hole Tap and Plug Permits.	Special Water Per-mits.	
	1/2-INCH.	3/4-INCH.	1-INCH.	1 1/4-INCH.	1 1/2-INCH.	2-INCH.	3-INCH.	4-INCH.																	
October	8	0	5	1	.....	.....	.....	14	34	370	44	9	939	374	55	164	225	59	100	2	.....	.....	.....	.....	47
November	12	6	3	.....	.....	.....	.....	14	9	652	28	12	294	467	191	147	68	16	413	7	.....	.....	.....	.....	9
December	1	12	2	.....	.....	.....	.....	17	18	496	48	6	126	630	69	114	19	8	232	.....	.....	.....	.....	.....	3
Total	21	20	10	1	.....	.....	.....	45	61	1,468	120	27	1,369	1,471	315	325	83	125	1,145	9	.....	.....	.....	.....	59

Meters in use December 31, 1899	3,983
" set during year 1900	120
<b>Total</b>	<b>4,103</b>
Meter accounts closed during year 1900	24
<b>Meters in use December 31, 1900</b>	<b>4,079</b>

In January, 1901, the Board of Estimate and Apportionment authorized the issue of bonds for increasing the water supply of Brooklyn, as follows:

- For lands required for 48-inch conduit, pumping stations and storage reservoirs. \$300,000 00
- For construction of storage reservoirs. 1,200,000 00
- For improvement of pumping stations. 200,000 00
- For coal houses, etc., at Millburn. 100,000 00

—and the same are now before the Municipal Assembly for their approval. The following are still before the Municipal Assembly for their action:

- For improving and repairing Millburn Reservoir. \$500,000 00
- For pumping engine at Millburn. 75,000 00
- For laying small mains. 250,000 00
- For condemnation of the property of the Flatbush Water Company. 750,000 00

All of these funds are immediately necessary so that work can be started in 1901.

BOROUGH OF RICHMOND.

SUMMARY OF EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1900.

Contingencies	\$79 95
Pumping Stations—Salaries and Supplies	1,471 34
Salaries—Office of Deputy Commissioner	1,466 62
<b>Total</b>	<b>\$3,017 91</b>

SUMMARY OF EXPENDITURES FOR THE YEAR 1900.

Contingencies	\$257 27
Pumping Stations—Salaries and Supplies	6,604 18
Salaries—Office of Deputy Commissioner	6,241 48
<b>Total</b>	<b>\$13,459 93</b>

Average daily consumption during quarter, gallons	88,275
Average daily consumption during 1900, gallons	84,242
Number of taps placed during quarter	10
Number of taps placed during 1900	36

Ten thousand dollars has been obtained to place four new driven wells. The authority for doing the work is still in the Municipal Assembly; the plans, specifications, etc., for same are now being made.

Until the wells, etc., are in working order and the increased supply from same assured, no extension of the mains should be made, or additional houses be supplied, the present supply only being sufficient for the present consumption, especially during the summer months.

Respectfully yours,

G. W. BIRDSALL, Chief Engineer.

DOCUMENT "C."

NEW YORK, January 21, 1901.

WILLIAM BALDWIN, Esq., Commissioner of Water Supply:

DEAR SIR—I herewith transmit a schedule of the charitable institutions which have been marked exempt during the year 1900, in accordance with instructions received from the Council to the Corporation; also a statement of the amount of revenue derived from Croton water for the year from January 1 to December 31, 1900.

Charitable Institutions which have Applied for Exemption from Charges for Croton Water, under the Provisions of Chapter 852 of the Laws of 1896 and Section 905 of the New York Charter, which the Council to the Corporation has Advised are Entitled to Exemption under the Act.

Table with 2 columns: INSTITUTIONS and LOCATION. Lists various institutions like Highgate Day Nursery, Little Sisters of the Poor, etc., and their addresses.

Have the honor to also submit a statement of moneys received for the year ending December 31, 1900, and placed to the credit of their respective accounts with the City Chamberlain, together with the amounts returned to the Bureau of Arrears.

TOTAL RECEIPTS.

Large table showing total receipts categorized by meter type (Croton, Steam, Household, etc.) and quarter (March, June, September, December). Includes sub-totals for each category and a grand total at the bottom.

Returned to Bureau of Arrears—

Table showing amounts returned to the Bureau of Arrears for regular rates and meter measurement. Total amount is \$562,842.09.

All of which is most respectfully submitted,

Very respectfully,

WM. G. BYRNE, Water Registrar.

REVENUE.

The following table exhibits the yearly revenue derived from Croton water from its introduction into the city in the year 1842 to January 1, 1900, copied from former Water Registrar's report, together with the revenue from January 1, 1900, to January 1, 1901:

Large table showing annual revenue from Croton water from 1842 to 1901. Columns include the date range, revenue amount, and total revenue. Shows a steady increase over time.

DEPARTMENT OF HIGHWAYS.

DEPARTMENT OF HIGHWAYS—COMMISSIONER'S OFFICE,  
New York, July 19, 1901.

Supervisor of the City Record:

DEAR SIR—In accordance with the provisions of section 1546, chapter 378 of the Laws of 1897, I transmit the following report of the transactions of the Department of Highways for the week ending July 10, 1901.

Respectfully,  
WM. N. SHANNON, Deputy Commissioner of Highways.

	BOROUGH.				
	MANHATTAN	THE BRONX	BROOKLYN	QUEENS	RICHMOND
<b>Public Moneys Received during the Week.</b>					
For restoring and re-paving pavements.....	Water connections, openings.....	\$78 00	\$307 00	\$58 00	.....
	Sewer connections, openings.....	86 01	305 00	25 00	.....
	General account.....	1949 57	.....	.....	.....
For redemption of obstructions removed.....	82 50	.....	.....	.....	
For vault permits.....	8,932 87	.....	28 30	.....	
For shed permits.....	31 00	.....	.....	.....	
For use of steam roller.....	.....	6 00	.....	.....	
<b>Total.....</b>	<b>\$9,001 42</b>	<b>\$170 05</b>	<b>\$525 30</b>	<b>\$74 00</b>	<b>.....</b>
<b>Permits Issued.</b>					
Permits to open streets, to lay water-pipes.....	.....	43	48	00	0
Permits to open streets, to repair water connections.....	.....	45	71	4	17
Permits to open streets, to make sewer connections.....	.....	9	45	3	5
Permits to open streets, to repair sewer connections.....	.....	3	33	1	.....
Permits to place building material on streets.....	90	3	19	.....	3
Permits to construct street vaults.....	3	.....	4	.....	.....
Permits, special.....	.....	6	121	28	94
Permits to construct sheds.....	3	.....	.....	.....	.....
Permits to erect awnings.....	.....	.....	3	.....	.....
Permits to cross sidewalks.....	14	3	16	4	.....
Permits for subways, steam-rails and various cross-sections.....	109	17	.....	2	.....
Permits for railway construction and repairs.....	.....	.....	.....	.....	.....
Permits to repair sidewalks.....	35	.....	.....	3	.....
<b>Obstructions Removed.</b>					
Obstructions removed from various streets and avenues.....	57	14	55	.....	.....
<b>Repairs to Pavement.</b>					
Square yards of pavement repaired.....	5,704	78	6,491	494	2,808

Requisitions drawn on Comptroller..... \$96,326 81

Statement of Laboring Force Employed in the Department of Highways during Week ending July 6, 1901.

NATURE OF WORK.	BOROUGH.														
	MANHATTAN			THE BRONX			BROOKLYN			QUEENS			RICHMOND		
	Mechanics	Laborers	Teams	Mechanics	Laborers	Teams	Mechanics	Laborers	Teams	Mechanics	Laborers	Teams	Mechanics	Laborers	Teams
Repairing and renewal of pavements.....	252	371	4 000	..	33	..	8	47	70	0 18	..	..	..	..	..
Boulevards, roads and avenues, maintenance of.....	19	96	27	9	19	381	119	5	10	16	1 5	..	..	..	..
Roads, streets and avenues.....	5	35	0 5	..	..	..	..	..	..	56	177	39	71	..	..
<b>Total.....</b>	<b>275</b>	<b>444</b>	<b>37 188</b>	<b>19</b>	<b>516</b>	<b>119</b>	<b>13</b>	<b>57</b>	<b>86</b>	<b>2 23</b>	<b>56</b>	<b>177</b>	<b>29</b>	<b>71</b>	<b>..</b>

REPORT OF CHANGES IN FORCE FOR THE WEEK ENDING JULY 10, 1901.

Borough of Manhattan.

Promoted to Toolman—1 Laborer.  
Promoted to Assistant Foreman—1 Laborer.  
Deceased—1 Laborer.  
Appointed—1 Laborer.

Borough of Brooklyn.

Increased from \$1,000 to \$1,200—1 Inspector of Incumbrances.

Borough of The Bronx.

Resigned—1 Foreman.  
Appointed—10 Laborers.  
Employed—2 teams.

DEPARTMENT OF DOCKS AND FERRIES.

At an adjourned meeting of the Board of Docks, held Friday, June 7, 1901, at 2 o'clock P. M.

Present—The full Board.

The minutes of the meeting held June 3, 1901, were approved.

On motion, the permit granted the United States War Department June 3, 1901, to use and occupy Pier, old 15, East river, was revoked, the Engineer-in-Chief directed to proceed with the removal of said pier in accordance with the resolution adopted October 26, 1900, and the application of the War Department for a lease of the new pier, to be constructed on the site of the present Pier, old 15, East river, referred to the Treasurer.

The communication from the Erie Railroad Company, offering to pay as rental, under the renewal lease of Piers, new 20 and 21, North river, with adjacent bulkhead, the sum of \$105,000 per annum, was also referred to the Treasurer.

The following permits were granted, to continue during the pleasure of the Board: Knickerbocker Steamboat Company—To berth the steamers "Grand Republic" and "General Steam" at night on the south side of the piers foot of West Fiftyth and West One Hundred and Twenty-ninth streets, North river, compensation for the privilege to be fixed by the Treasurer.

George J. Atwell—To load cellar dirt on scow at the bulkhead between Piers 4 and 5, East river, compensation to be fixed by the Treasurer.

The following permits were granted, the work to be done under the supervision of the Engineer-in-Chief:

Empire City Subway Company—To construct a subsidiary connection to the Pennsylvania Railroad Company's ferry-house foot of Desbrosses street, North river; all pavement to be relaid by the force of the Department at the cost of said company.

Brown & Fleming—To dredge under the dumping-board foot of Fortieth street, East river.  
Bovary Bay Building and Improvement Company—To repair their water-front property at North Beach, Borough of Queens, the work to be kept within existing lines.

Estate of H. D. Brookman—To repair the crib-bulkhead between Bridge and Jay streets, East river, Borough of Brooklyn, the work to be kept within existing lines and to be done in accordance with plans and specifications to be hereafter approved by the Engineer-in-Chief.

S. J. McLeod—To repair the pier near the foot of Jersey street, New Brighton, Staten Island, the work to be kept within existing lines.

The following permits were granted, to continue during the pleasure of the Board, the work to be done under the supervision of the Engineer-in-Chief:

Daniel A. Skinnell—To construct a cribwork on his property at Bay Side, Borough of Queens, in accordance with plans and specifications to be first approved by the Engineer-in-Chief.

Cornelius Furgueson—To construct a bathing pier between Twentieth and Twenty-first avenues, Bensonhurst, Borough of Brooklyn, in accordance with plans to be first approved by the Engineer-in-Chief.

The following communications were ordered on file:

From the Comptroller—Requesting that requisitions be drawn for the amounts of the awards in the matter of the acquisition of the eighty-eight feet of bulkhead near the foot of Clinton street, East river, owned by Amelia Suyvesant. Chief Clerk directed to draw requisition therefor.

From the Corporation Counsel—

1st. Approving form of Contract No. 708, for furnishing cement.  
2d. Advising that the bid of Brown & Miller, for constructing a steel tug, under Contract No. 705, is a valid one.

From the Department of Parks—Advising that the 25 feet of bulkhead east of Pier, old 54, East river, offered for sale by Edward F. Keeder, is not within the lines of the park thereat.

From Naughton & Co.—Transmitting consent of sureties to the extension of time to May 25, 1901, granted for the completion of Contract No. 689, for furnishing piles.

From Stephen Peabody—Calling attention to the brave action of Lawrence J. Hallaran in rescuing a woman from the East river at the Pier foot of East Twenty-fourth street on June 2, 1901. Secretary directed to express to said Hallaran the thanks of the Board for his action.

From Alfred P. Coburn—Offering to sell to the City the premises between Eighteenth and Nineteenth streets, North river, for the sum of \$295,000.

On motion, the following preambles and resolution were adopted:

Whereas, By section 822 of chapter 378 of the Laws of 1897, the Board of Docks of The City of New York is authorized to acquire, in the name and for the benefit of The City of New York, wharf property in said city, and all rights, terms, easements and privileges pertaining thereto, subject to the approval of the Commissioners of the Sinking Fund, and to agree with the owners of any such wharf property, rights, terms, easements or privileges upon a price for the same; and

Whereas, The Board of Docks is desirous of acquiring, in the name and for the benefit of The City of New York, the following-described premises, to wit: All that certain piece or parcel of land, with the buildings and improvements thereon, situated between Eighteenth and Nineteenth streets, Eleventh and Thirteenth avenues, in The City of New York, Borough of Manhattan, which said piece or parcel of land is bounded and described as follows: Beginning at a point on the easterly side of Thirteenth avenue, where the same is intersected by the southerly line of Nineteenth street; thence running easterly along the southerly line of Nineteenth street 177 feet 7 3/4 inches to the westerly line of Eleventh avenue; thence southerly along the westerly line of Eleventh avenue 138 feet; thence westerly parallel with Nineteenth street 70 feet 5 inches; thence southerly parallel with Eleventh avenue 23 feet; thence easterly parallel with Nineteenth street 2 feet 8 1/2 inches; thence southerly parallel with Eleventh avenue 23 feet to the northerly line of Eighteenth street; thence westerly along the northerly line of Eighteenth street, 67 feet 9 3/4 inches to the easterly line of Thirteenth avenue; thence northerly along the easterly line of Thirteenth avenue 188 feet 9 inches to the point or place of beginning; together with all the bulkhead and wharfage rights along the westerly side of Thirteenth avenue, fronting on said premises, and between the northerly line of Eighteenth street and the southerly line of Nineteenth street, in length about 188 feet and 9 inches; and

Whereas, Alfred P. Coburn, the owner in fee simple, has offered to sell to the City the above-described premises, with all hereditaments, including the riparian and wharfage rights, for the sum of two hundred and ninety-five thousand dollars.

Resolved, That this Board hereby accepts the said offer of Alfred P. Coburn to sell to the City the said described premises, with all hereditaments, and agrees to pay for a good and sufficient title thereto, free from all incumbrances, the sum of two hundred and ninety-five thousand dollars, subject to the approval of the Commissioners of the Sinking Fund.

From John H. Starin—Requesting that the pier foot of Metropolitan avenue, Borough of Brooklyn, be prepared for the landing of the Glen Island steamers. Engineer-in-Chief directed to drive the necessary piles and to cut gangway thereat.

From H. P. Kirkham & Son—Requesting removal of the sunken lighter from their property foot of Conover street, Borough of Brooklyn. Secretary directed to state that the lighter must be removed by them, it being on their property.

From the Central Hudson Steamboat Company—Requesting that Pier, new 24, North river, be extended out to the present pier-head-line.

On motion, the following resolutions were unanimously adopted:

Resolved, That this Board hereby agrees to lengthen and extend Pier, new 24, North river, out to the new pier-head-line of 1897, and to lease said extension, when completed, to Homer Ramsdell for a period coterminous with the existing lease of Pier, new 24, North river, subject to all the terms and conditions of said lease, provided said Homer Ramsdell agrees to pay, as compensation therefor, the sum of five per cent. per annum on the cost of doing said work.

Resolved, That the Engineer-in-Chief be and hereby is directed to lengthen and extend Pier, new 24, North river, out to the new pier-head-line of 1897, and that all the work hereby ordered be performed otherwise than by contract, as provided by section 821 of the Greater New York Charter, and that it be done by the force of the Department by day's work, except so much of the labor and material as is now or may hereafter be contracted for, and that all the work, materials, tools, etc., necessary for the above-mentioned work not now contracted for or which may not hereafter be contracted for, be purchased by the Treasurer otherwise than by contract.

From the Secretary—Reporting that the sale of old material, held June 3, 1901, netted the sum of \$1,167.75.

From the Dock Superintendent—Report for the week ending June 1, 1901.

From the Engineer-in-Chief—

1st. Report for the week ending June 1, 1901.  
2d. Reporting the completion of the extension to Pier, new 40, North river, on June 3, 1901. Treasurer authorized to collect rental therefor from date of completion at the rate of five per cent. per annum on the cost of the work, in accordance with the resolution adopted November 23, 1900.

3d. Recommending that repairs be made by the force of the Department to Pier, new 43, North river; to the pier foot of One Hundred and Seventeenth street, Harlem river; to the pier at the southerly end of Hart's Island, and to the pier foot of Fordham avenue, City Island. Recommendations adopted.

4th. Submitting specifications and form of contract for furnishing yellow pine timber.

On motion, the following resolution was adopted:

Resolved, That the specifications and form of contract submitted this day by the Engineer-in-Chief for furnishing and delivering sawed yellow pine timber, be and they are hereby approved, subject to the approval of the Corporation Counsel as to form, and the Secretary be and hereby is directed to have a sufficient number of blank forms of contract printed and proper advertisements, inviting estimates, inserted in the newspapers designated by law.

5th. Report on Secretary's Order No. 20759, stating that it is not the intention of Anderson, Murphy & Co. to remove the sunken stone from the water on the north side of Pier foot of One Hundred and Thirty-second street, North river.

6th. Report on Secretary's Order No. 20831, submitting plans, specifications and form of contract for extending and repairing the pier foot of Thirtieth street, North river.

On motion, the following resolution was adopted:

Resolved, That the plans, specifications and form of contract submitted this day by the Engineer-in-Chief for repairing the Pier foot of Thirtieth street, North river, and extending said pier to the pier-head-line of 1897, be and they are hereby approved, subject to the approval of the Corporation Counsel as to form, and the Secretary be and hereby is directed to have a sufficient number of blank forms of contract printed and proper advertisements, inviting estimates, inserted in the newspapers designated by law.

7th. Report on Secretary's Order No. 20917, stating that it is not the intention of M. B. Martin to remove the material dumped from scow north of the Pier foot of One Hundred and Thirty-third street, North river.

The Treasurer, Commissioner Murphy, submitted his report of receipts for the week ending June 6, 1901, amounting to \$45,561.74, which was received and ordered to be spread in full on the minutes, as follows:

DATE	FROM WHAT.	FOR WHAT.	AMOUNT.
1901	N. Y. & H. & H. R. R. Co.	3 mos. rent, E. 1/2 Pier 32 and W. 1/2 Pier 33, bldg., etc., E. R.	\$1,166 07
"	"	1 d. w. pfm. south Pier 30, E. R.	277 90
"	"	bet. Piers 49 and 50, E. R.	87 99
"	"	51 and 52, E. R.	152 87
"	"	for widen'g Pier 49, E. R.	13 27
"	"	pfm., bet. Piers, old 43 and new 36, E. R.	132 90
"	"	Pier, new 36, E. R.	1,445 66
"	"	1 d. w. for wid'g and l'gth'g Pier 45, E. R.	64 88
"	Thomas R. Co.	Pier, new 29, N. R.	7,022 00
"	"	bldg. from a point halfway bet. Piers, new 28 and 29, east, 20 ft. N. Pier, new 29, N. R.	1,022 00
"	"	1 d. w. pfm. bet. Piers, old 1 and 2, N. R.	530 00
"	"	in front bldg. bet. Communipaw Fly pfm. and Pier, old 45, N. R.	250 12
"	"	swing and sheathing Pier, new 29, N. R.	684 32
"	Edo R. Co.	bldg. bet. Piers, new 6 and 7, E. R.	32 37
"	"	1 d. w. bet. 200 and 250 sts., N. R.	427 89
"	Isaac Solomon	both houses, etc., S. side Pier 11, W. 125th st., N. R.	122 50
"	Sumner & N. Y. S. B. Co.	berth in pier end, S. side Pier, new 28, N. R.	977 78
"	Cantillon & S. V. S. B. Co.	1/2 Pier, new 43, N. R.	1,666 67
"	Wm. Turner	Pier 11, 125th st., E. R.	125 00
"	Upp & Co.	60 north St. "Angler," at Pier 11, E. and st.	75 93
"	Public Mail S. B. Co.	Pier, new 24 and bldg. each side, N. R.	15,793 84
"	N. Y. & H. & H. R. Co.	1 d. w. pfm., bet. Piers 26 and 27, E. R.	441 56
"	Harwood Tr. Co.	for bridge on Pier 11, 7th st., E. R.	200 00
"	International Nav. Co.	bldg. east'g from a point 75 ft. S. S. side Pier, new 24, N. R., for 25 ft.	129 00
"	"	Pier, new 23 and bldg. south, N. R.	6,250 00
"	Wm. Harroff	24 days' rent of floating dump ft. E. 20th st.	32 44
"	Brown Bros.	3 mos. rent Pier 11, E. 21st st.	262 20
"	A. W. Walsh	270 ft. N. side Pier 62, E. R.	123 75
"	Faterson & Elder	200 ft. bldg. N. from S. bldg. at Wallabout basin.	275 00
"	Penno, M. R. Co.	ferry, Brooklyn to Jersey City, "Annex"	225 00
"	N. Y. & H. & H. R. Co.	Cost of repairs to Pier 11, 125th st., E. R.	377 33
"	Phillip A. Smyth	sale of old material	1,462 75
"	Dist. Attorney	Wharves, Manhattan, May, 1901	518 61
"	"	Brooklyn, May, 1901	21 49
"	"	Manhattan, June, 1901	600 00
"	"	Brooklyn, June, 1901	34 26
"	"	Queens, June, 1901	83 00
"	"	Manhattan, February, 1901	24 00
"	"	March, 1901	24 50
"	"	April, 1901	981 14
"	"	Brooklyn, March, 1901	252 75
"	"	Queens, April, 1901	7 00
Date deposited, June 7, 1901.			\$45,561 74

Respectfully submitted,  
CHARLES F. MURPHY, Treasurer.

The Auditing Committee submitted a report of nineteen bills or claims, amounting to \$40,560.08, which had been approved and audited. The report was ordered to be spread in full on the minutes, as follows:

Bill No.	Name.	Amount.	Total.
<b>Construction.</b>			
19601	W. H. Jenks, Estimate No. 3, Contract No. 698	\$10,000 50	
19602	John N. Robbins Company, repairs, etc., to derrick	17,114 50	
19603	Morris & Cummings Dredging Company, dredging	9,138 25	
19604	Brown & Fleming, rip-rap stone	3,435 85	
19605	Murray & Co., rubble	2,901 70	
19606	F. Day, towing	989 19	
19607	Fox Brothers, supplies, etc.	472 78	
19608	John E. Walsh, Jr., pipe poles	235 00	
19609	Nimbs & Nimis, electrical supplies	95 00	
			544,451 86
<b>General Repairs.</b>			
19620	W. H. Beard Dredging Company, Estimate No. 4, Contract No. 695	\$3,808 70	
19621	Peter McGlynn, use of horse, cart and driver	210 00	
19622	Thomas Kelly, use of horse, cart and driver	210 00	
19623	James H. Cahill, use of horse, cart and driver	105 00	
			4,333 70
<b>Construction.</b>			
19624	Car fares	\$441 70	
19625	Incidentals	95 78	
			537 48
<b>General Repairs.</b>			
19626	Car fares	\$44 73	
19627	Incidentals	19 85	
			64 58
<b>Annual Expense.</b>			
19628	Car fares	\$44 34	
19629	Incidentals	134 12	
			178 46
			\$49,566 08

Respectfully submitted,  
J. SERGEANT CRAM, } Auditing  
CHARLES F. MURPHY, } Committee.

The action of the Secretary in transmitting the same, with requisitions for the amount, to the Finance Department for payment, approved.

The following requisitions were passed:

Register No.	For What.	Estimated Cost.
17797	Supplies	\$700 00
17798	Towing, per hour	5 00

Requisition No.	For What.	Estimated Cost.
414Z.	Use of horse, cart and driver, per day	\$3 50
415Z.	Use of horse, cart and driver, per day	3 50
416Z.	Use of horse, cart and driver, per day	3 50
417Z.	Use of horse, cart and driver, per day	3 50
418Z.	Use of horse, cart and driver, per day	3 50
419Z.	Printing, etc.	---

The Board then went into executive session.  
The application of Walter O. Bolas for an increase in salary as Dock Master, was denied.  
On motion, the Secretary was directed to request the Comptroller and the Municipal Civil Service Commission to consent to the transfer of Malachy P. Keane from the position of Assistant Accountant in the Finance Department to the position of Clerk in this Department.  
On motion, the Board adjourned, to meet Friday, June 14, 1901, at 2 P. M.  
WM. H. BURKE, Secretary.

DEPARTMENT OF DOCKS AND FERRIES.

At an adjourned meeting of the Board of Docks held Friday, June 14, 1901, at 2 o'clock P. M. Present—The full Board.

The minutes of the meeting held June 7, 1901, were approved.  
The communication from Pina, Perwood & Kellock, agents for the Atlas Line of Mail Steamers, requesting that a new lease of Pier, new 53, North river, be granted for a term of ten years, from May 1, 1902, the date of the expiration of the present lease, and that said pier be extended to the existing pier-head-line, was referred to Commissioner Meyer.

The communication from John McDermott & Son, requesting permission to occupy the inner 125 feet of Pier, new 30, East river, when completed, with the privilege of maintaining a portable steam hoist thereon, was referred to the Treasurer.

The following permits were granted, to continue during the pleasure of the Board, the work to be done under the direction and supervision of the Engineer-in-Chief:

Metropolitan Street Railway Company, to erect an iron awning for horse shelter on the new male land between Piers, new 31 and 32, North river.

Knickerbocker Steamboat Company, to erect an iron shelter, about 20 by 30 feet, on the outer end of the south side of the Pier foot of West Twentieth street, the consent of the T. Cunningham Company, occupants, having been obtained.

George S. Macdonald, to land the steamer "S. E. Spring" at the Pier foot of Main street, City Island, and to construct an iron shed, 15 by 20 feet, on said pier, the compensation to be fixed by the Treasurer.

The following permits were granted, the work to be done under the supervision of the Engineer-in-Chief:

New York Horse Manure Company, to make general repairs to the Pier line at West Forty-fifth street, for a period of six months from July 1, 1901, all repairs to be kept within existing lines.

Metropolitan Street Railway Company, to dredge in front of the bulkhead between Ninety-fifth and Ninety-sixth streets, East river.

J. & S. Bernheimer, to repair the backing-log on the bulkhead south of One Hundred and Thirty-ninth street, on the south side of the Harlem river, and the pavement in rear thereof.

Brooklyn Wharf and Warehouse Company, to make general repairs on its water-front property in the Borough of Brooklyn for a period of six months from July 1, 1901, all repairs to be kept within existing lines.

The following communications were ordered on file:

From the Comptroller—  
1st. Requesting information as to the amount of wharf property used in connection with the Hamilton, South Wall, Fulton and Catharine lanes. Action of the Secretary in furnishing same approved.

2d. In relation to substitution of surety on Contract No. 705.  
On motion, the following resolution was adopted:  
Resolved, That permission be and hereby is granted for the substitution of the Fidelity and Deposit Company of Maryland as surety in the place of H. D. Lyman, on the estimate of Brown & Miller, for building a new steel trestle under Contract No. 705.

From the Corporation Counsel—  
1st. Approving form of Contract No. 707, for dredging on the East and Harlem rivers, and No. 710, for building two crib-bulkheads between One Hundred and Thirty-first and One Hundred and Thirty-fifth streets, Harlem river.

2d. Transmitting bills of costs in proceedings for the acquisition of Pier, old 4, and Pier, new 7, East river, and bulkhead between East Twentieth and Twenty-first streets. Chief Clerk directed to draw the necessary requisitions therefor.

From the Department of Health—Requesting permission to land at the Pier foot of South Eleventh street, Brooklyn, for the transportation of patients. Application granted, the consent of the owner of said pier to be first obtained.

From William P. Clyde & Co.—Accepting the terms and conditions of the resolutions adopted May 31, 1901, agreeing to lease to them Pier, new 36, North river, with adjoining half bulkheads. Secretary directed to request the Corporation Counsel to prepare the necessary form of lease.

From William H. Jenks—Transmitting consent of sureties to the extension of time granted in August 12, 1901, for the completion of the work of building the outer ends of Piers, new 29 and 30, East river, under Contract No. 698.

From J. H. Walker, Secretary—Stating that the name of the Dover Post Club has been changed to the Pleasant View Club.

On motion, the permit granted the Dover Post to use the boat-house at the foot of One Hundred and Twenty-fourth street, Harlem river, was transferred accordingly.

From Theresa A. S. Sheridan—Requesting that dredging be done by this Department in front of the dumping-board at the foot of Ninety-sixth street, North river, at her cost and expense. Engineer-in-Chief directed to order the necessary dredging thereat and to report the cost of the work for collection.

From M. Goodwin—Requesting permission to erect a dumping-board on the bulkhead between Eighteenth and Nineteenth streets, North river. Application denied, it being the intention of the Board to proceed with the improvements thereat as soon as possible.

From the Treasurer—  
1st. Recommending that the compensation to be charged the Knickerbocker Steamboat Company for berthing a steamer on the south side of the Pier foot of West Fiftieth street be fixed at the rate of \$15 per day, and for berthing a steamer on the south side of the Pier foot of West One Hundred and Twenty-ninth street, at the rate of \$10 per day, payable in each case at the end of each week to the Dock Master. Recommendations adopted.

2d. Recommending that the action of the Board of May 31, 1901, in fixing the compensation to be charged Thomas Ward for a berth at the foot of West Eightieth street be modified by fixing said rate at \$1 per day, commencing June 1, 1901; said amount to be paid monthly, in advance, to the Dock Master. Recommendation adopted.

3d. Recommending that the compensation to be charged George J. Atwell for the privilege of loading cellar dirt on scow at the bulkhead between Piers 4 and 5, East river, be fixed at the rate of \$3 per day, payable at the end of each week to the Dock Master. Recommendation adopted.

4th. Recommending that the compensation to be charged Joseph Ryan for the privilege of maintaining an ice bridge and scales on 100 feet of the bulkhead between One Hundred and Seventh and One Hundred and Eighth streets, Harlem river, be fixed at the rate of \$666.67 per annum instead of \$1,000, in consequence of the reduction in the amount of space required. Recommendation adopted.

5th. Recommending that the compensation to be charged George Rae for the privilege of maintaining a float and house at the foot of Tiffany street, East river, Borough of The Bronx, be fixed at the rate of \$1 per month instead of \$20 per month, payable in advance to the Dock Master. Recommendation adopted.

From the Dock Superintendent—Report for the week ending June 8, 1901.

From the Engineer-in-Chief—  
1st. Report for the week ending June 8, 1901.

2d. Reporting the commencement of the work of building a new pier at the foot of One Hundred and Thirty-first street, North river, under Contract No. 704, June 8, 1901.

3d. Reporting the erection of a bridge, walkway and float by William Zeltner, without permit, on the west side of City Island, about 600 feet south of the new bridge approach. Secretary directed to notify said Zeltner that the structures must be removed unless permit is obtained therefor.

4th. Recommending that repairs be made by the force of the Department to the bulkhead foot of Forty-ninth street, East river, and to the backing-log on the bulkhead foot of One Hundred and Twenty-fifth street, Harlem river. Recommendation adopted.

The Treasurer, Commissioner Murphy, submitted his report of receipts for the week ending June 13, 1901, amounting to \$9,258.57, which was received and ordered to be spread in full on the minutes, as follows:

Table with columns: DATE, FROM WHOM, FOR WHAT, AMOUNT. Lists various bills and payments from June 10 to June 28, 1901, including items like 'W. A. Wilson', 'W. M. Montgomery', 'Curtis & Blaisdell', etc.

Respectfully submitted, CHARLES F. MURPHY, Treasurer.

The Auditing Committee submitted a report of thirty-three bills or claims, amounting to \$76,424.10, which had been approved and audited. The report was ordered to be spread in full on the minutes, as follows:

Table with columns: Audit No., Names, Construction, Amount, Total. Lists items like 'Naughton & Co., Estimate No. 2 and Final Contract No. 589', 'Morris & Cummings Dredging Company, dredging', etc.

Respectfully submitted, J. SERGEANT GRAM, Auditing Committee; CHARLES F. MURPHY, Treasurer.

The action of the Secretary in transmitting the same, with requisitions for the amount, to the Finance Department for payment approved.

On motion, the following resolution was adopted: Resolved, That the Corporation Counsel be and hereby is authorized to enter into a stipulation with the owners of property between Twelfth and Thirteenth streets, west of Tenth avenue, whereby the City may take possession of the property at once and agree to pay said owners six per centum per annum on the awards made for said property from the date of taking possession thereof until payment of the awards.

On motion, the following resolution was adopted: Resolved, That any and all permits for boat-houses, floats, buildings or other structures on the westerly side of the Harlem river, between the centre line of the block between East One Hundred and Thirty-first and East One Hundred and Thirty-second streets, and the southerly line of East One Hundred and Thirty-third street, be and they are hereby revoked, to take effect July 1, 1901, and the owners and occupants of all structures between said lines be and they are hereby directed to remove the same on or before said date.

On motion, the following resolution was adopted: Resolved, That during the absence of the Treasurer, Commissioner Meyer be and is hereby authorized to act as Treasurer pro tem.

On motion, the following resolution was unanimously adopted: Resolved, That the Engineer-in-Chief be and hereby is directed to prepare plans and specifications, and the Treasurer be and hereby is authorized to issue orders for the placing of an

asphalt pavement in order to repair the present granite pavement between the southerly side of Twenty-sixth street and the northerly side of Thirtieth street, north river, and between the westerly side of Thirteenth avenue and the boulevard between said streets.

The Secretary reported that the payroll for the week ending June 7, 1901, amounting to \$17,904.79, had been approved, audited and transmitted to the Department of Finance for payment.

The Board then went into executive session. The following communications were ordered on file.

From the Engineer-in-Chief—Transmitting resignation of Harvey Farrington, Assistant Engineer, to take effect June 15, 1901. Resignation accepted.

From Jeremiah O'Connell—Tendering his resignation as Dock Builder. Resignation accepted.

From Richard J. Lyons, Jr.—Declining appointment as Recreation Pier Attendant. Appointment rescinded.

From the Municipal Civil Service Commission—Submitting list of persons eligible for appointment as Flaggers.

On motion, the following resolution was adopted: Resolved, That John Neuman, Thomas J. O'Leighlin, John Slatery, Joseph J. Vasey and John McCoy be and they are hereby appointed Flaggers, with compensation at the rate of twenty-five cents per hour while employed.

On motion, the Board adjourned to meet Friday, June 21, 1901, at 2 o'clock p.m. WM. H. BURKE, Secretary.

DEPARTMENT OF BUILDINGS.

IN BOARD OF BUILDINGS, JULY 3, 1901.

Present—Commissioners Wallace, Guilfoyle and Campbell. The minutes of the meeting of June 26, 1901, were read and, on motion, approved.

Petitions were submitted for approval, as follows: Plan 373, New Buildings, 1901, Manhattan and The Bronx—Petition to allow building to be increased 4 feet 6 inches in height, thereby making building 79 feet 6 inches, instead of 75 feet high, as stated in petition; south side Forty-third street, 275 feet west Tenth avenue. Petitioner, Frank A. Rooke. Approved.

Plan 728, New Buildings, 1901, Manhattan and The Bronx—Petition to allow building to cover 8,613 square feet, instead of 8,000 square feet; all apartments will be included separately with brick walls, as stated in petition; north side One Hundred and Fiftieth streets, 400 feet east Seventh avenue. Petitioner, Henri Fouchoux. Referred to President.

Plan 727, New Buildings, 1901, Manhattan and The Bronx—Petition to allow building to cover 8,617 square feet, instead of 8,000 square feet; all apartments will be included with brick walls, as stated in petition; south side One Hundred and Forty-first street, 402 feet east Seventh avenue. Petitioner, Henri Fouchoux. Referred to President.

Plan 1208, New Buildings, 1901, Manhattan and The Bronx—Petition to allow structure to be constructed of iron frame and galvanized iron, as stated in petition; south side Fiftieth street, 200 feet east Fourth avenue. Petitioner, Arthur B. Jennings. Approved.

Plan 789, New Buildings, 1901, Manhattan and The Bronx—Petition to allow the Gay B. Waite Company system of flat concrete inches to be used for fireproofing each floor, as stated in petition; No. 306 West One Hundred and Second street. Petitioner, Gerard Fountain. Referred to President.

Plan 1211, New Buildings, 1901, Manhattan and The Bronx—Petition to allow rear wall to be built of thickness shown on drawings, inasmuch as same is not a bearing wall and of ample strength for purpose to which same is put, as stated in petition; No. 254 West Fifty-seventh street. Petitioner, Bushman & Fox. Referred to President.

Plan 1467, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow connecting bridge to be built in rear between old building and new addition; same will be constructed of T's and angle irons, with terra-cotta blocks built in between and covered on the outside with galvanized sheet iron; also to allow present building to remain unaltered, instead of making same fireproof, all as stated in petition; No. 440 East Fifty-seventh street. Petitioner, A. C. Jackson. Approved, on condition that self-closing fireproof doors be provided at all points of communication between old building and proposed addition.

Plan 1496, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow two upper walls of extension to be supported on iron columns and girders extending from the bottom, existing lower wall not being thick enough to support proposed new upper part; also to allow two new iron exterior staircases to be substituted on the Eleventh street side, for the two lines required, all as stated in petition; northwest corner Eleventh street and Broadway. Petitioner, Welch, Smith & Provost. Referred to President.

Plan 1498, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow a non-fireproof building to be used for temporary quarters for the Babies' Hospital of the City of New York, as stated in petition; northeast corner Lexington avenue and Fiftieth street. Petitioner, York & Sawyer. Approved.

Plan 1147, New Buildings, 1901, Manhattan and The Bronx—Petition to allow the flooring system "B" or flat construction to be used for floors, as stated in petition; No. 236 East Thirty-fifth street. Petitioner, Andrews & Withers. Referred to President.

Plan 1453, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow basement and first-story walls to be built 12 inches thick of brick, and 3 inches thick for second and third stories; walls will be laid in lime and sand mortar, as stated in petition; No. 104 West Eighty-seventh street. Petitioner, Mary G. Davies. Approved.

Plan 1536, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow height of extension to be increased one story with 8-inch walls, thereby making same two stories and basement, without lining walls, as stated in petition; No. 129 East Thirty-fifth street. Petitioner, S. B. Colt. Approved.

Plan 1553, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow an additional story to be built as shown on plans, with present thickness of walls; brick walls including fireproof stairs and elevator shafts will act as buttresses for walls, as stated in petition; Nos. 541 to 547 Pearl street. Petitioner, Richard Berger. Referred to President.

Plan 1161, New Buildings, 1901, Manhattan and The Bronx—Petition to allow columns supporting floor in first story to remain non-fireproof; columns supporting brick walls will be fireproofed; also to allow east wall of premises adjoining on the west to be removed, and while building this structure it is proposed to build piers 9 feet on centres, to support a girder to receive roof beams, with 4-inch non-bearing inclosing wall of tile to be built between these piers, all as stated in petition; Nos. 213 to 221 East Twenty-fourth street. Petitioner, Cleverdon & Tuttle. Approved.

Plan 1467, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow pent-house to be constructed of iron tees, covered with corrugated iron; roof will be framed with spruce, 3-inch by 9-inch beams, 20 inches on centres, tin roof; same will be 10 feet high above present roof of building; tee irons will be filled in with fireproof blocks; same will be 75 feet wide and 30 feet deep, as stated in petition; Nos. 173 to 177 West Eighty-ninth street. Petitioner, \_\_\_\_\_.

Plan 1448, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow a workshop for a photograph gallery to be built on roof of third story; an 8-inch brick wall will be built on both sides and 12 inches on front and rear and the top of extension on roof will not be more than 40 feet above foundation; building after alterations will be occupied as store, by two families and photograph gallery on top floor, as stated in petition; No. 153 Livingston street. Petitioner, Fred Ebeling. Approved.

Plan 1377, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow wooden floors to be used; approved. Also to allow fire-escape at rear of No. 266 West Fortieth street to be used for both buildings, all as stated in petition; Nos. 264 and 266 West Fortieth street. Petitioner, K. C. Budd. Denied.

Plan 1073, Alterations to Buildings, 1901, Manhattan and The Bronx—Petition to allow walls to be built of less thickness than required by law; also to allow building to cover a larger percentage of lot, all as stated in petition; No. 987 Madison avenue. Petitioner, Cleverdon & Tuttle. Approved.

An application was received from Messrs. Paul Kuhne & Co. for official approval of their sheet metal structural element, with sample, which was referred to the President.

Copy of opinion of Hon. John Whelan, Corporation Counsel, relative to the power of the Board of Buildings to modify section 109 of the Building Code, was received and ordered on file.

On motion, the Board then adjourned to meet at the call of the Chair. A. J. JOHNSON, Secretary, Board of Buildings.

AQUEDUCT COMMISSION.

Minutes of Adjourned Meeting of the Aqueduct Commissioners, held at their Office, No. 207 Stewart Building, on Friday, June 21, 1901, at 11 o'clock A. M.

Present—Commissioners Ryan (President), Ten Eyck, Power and Windolph, also Deputy & Acting Comptroller Levey.

The Construction or Executive Committee recommended the adoption of the following preamble and resolution:

Whereas, In the prosecution of the work upon the New Croton Dam, on Croton river at Cornell site, by the Town of Carlanti, Westchester County, N. Y., and of the Jerome Park Reservoir, near Kingsbridge, in the Twenty-fourth Ward of The City of New York, certain conditions and circumstances have developed which suggest that a change or modification may be desirable in the plans for the construction of that portion of the dam designed to be constructed of earth with a masonry core-wall, and of the core-wall and embankment of the lower side of somewhat similar construction; and

Whereas, It has been suggested by the Chief Engineer that, before any final determination is arrived at, advice should be sought from engineers of recognized ability and experience not connected with the present plans or the work of construction thereunder; therefore

Resolved, That the President of the Aqueduct Commissioners be and hereby is authorized to employ Mr. J. K. Croce, Mr. Edwin F. Smith and Mr. Elmathan Sweet, to examine the present plans for the construction of said dam, and the work of construction thereof so far as the same has proceeded, and also of the core-wall and embankment of the Jerome Park Reservoir of somewhat similar construction, and to report to the Aqueduct Commissioners what changes or modifications, if any, should be made in the plans for the construction of said dam and reservoir. Which were adopted by the following vote:

Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph and Deputy & Acting Comptroller Levey—5.  
The Commissioners then adjourned.

HARRY W. WALKER, Secretary.

AQUEDUCT COMMISSION.

Minutes of Next Meeting of the Aqueduct Commissioners, held at their Office, No. 207 Nassau Building, on Tuesday, June 25, 1901, at 11 o'clock A. M.

Present—Commissioners Ryan (President), Ten Eyck, Power and Windolph.

The minutes of stated meeting of June 18 and adjourned meeting of June 21, 1901, were read and approved.

By Commissioner Ten Eyck—

Resolved, That the accompanying bill for additional school taxes for the year 1900 on property taken in fee by The City of New York for the construction of the New Croton Aqueduct, etc., in School District No. 3, Town of Carlanti, New York, amounting to thirty-seven dollars and ninety-two cents, is hereby approved and ordered certified to the Comptroller for payment. Which was adopted by the following vote:

Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph—4.

Commissioner Ten Eyck, as Chairman of the Committee of Finance and Audit, reported the examination and audit of bills contained in Vouchers Nos. 14,052 to 14,057, inclusive, amounting to \$109.57. Which were approved and ordered certified to the Comptroller for payment by the following vote:

Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph—4.

The following communication was received:

DEPARTMENT OF FINANCE—CITY OF NEW YORK,  
June 20, 1901.

Hon. JOHN J. KWAN, President, Aqueduct Commission:

Sir—Application has been made to the Commissioners of the Sinking Fund for the sale of a one of land situated on the southwest corner of Kingsbridge road and Davidson avenue, Twenty-fourth Ward, Borough of The Bronx.

The property is part of the land acquired by The City of New York, pursuant to the provisions of chapter 499 of the Laws of 1883, for the purposes of a reservoir, and has been separated from the bulk of the property so acquired, by the opening of the Kingsbridge road upon the new lines, as laid down on the Final Maps of the Twenty-third and Twenty-fourth Wards, all as shown on the accompanying sketch, and marked "A."

If this one of 2.3 feet on Davidson avenue by 21.62 feet on the Kingsbridge road is not required for the purpose for which it was acquired, I request that you formally turn the same over to the Commissioners of the Sinking Fund that the same may be disposed of, in the interest of the City.

Yours respectfully,  
EDGAR J. LEVEY, Secretary, Commissioners of the Sinking Fund.

Sketch enclosed, which kindly return.

Commissioner Ten Eyck moved that the communication and subject-matter thereof be referred to the Chief Engineer for report as to whether or not the land referred to is required for aqueduct purposes.

Which was carried by the following vote:  
Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph—4.

A communication was received from the Commissioner of Water Supply, dated June 24, 1901, in relation to Croton Lake and river.

Commissioner Ten Eyck moved that the communication be referred to the Construction or Executive Committee.

Which was carried by the following vote:  
Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph—4.

The following communication was received:

New York, June 24, 1901.

To the Honorable the Aqueduct Commissioners, New York City:

Gentlemen—We beg to apply for an extension of time until October 1, 1901, for completing our contract for building the overflow and blow-off sewer, water pipes and appurtenances in connection with the Jerome Park Reservoir, dated September 30, 1899. Our reason for the above extension is the hazardous character of the work, necessitating slow and careful methods, and also the fact that during the months of April and May the rainfall was so extended and great that but little could be done owing to falling banks and bad weather.

We have applied for the consent of sureties which will be sent you direct.

Yours respectfully,  
KELLY & KELLEY.

In connection therewith, Commissioner Power offered the following preamble and resolution:

Whereas, Application has been made by Kelly & Kelley, contractors, for building overflow and blow-off sewers, etc., in connection with the Jerome Park Reservoir, for a further extension of time to October 1, 1901, in which to complete said contract; therefore be it

Resolved, That an additional extension of time to October 1, 1901, be and hereby is granted to Kelly & Kelley in which to complete their contract with the Aqueduct Commissioners for building overflow and blow-off sewers, etc., in connection with the Jerome Park Reservoir, providing their bondsmen shall, on or before July 1, 1901, enter into stipulations continuing their obligations for and during the completion of said contract under said extension of time, which is hereby allowed to them as further time for the performance of said contract.

Which were adopted by the following vote:  
Affirmative—Commissioners Ryan, Ten Eyck, Power and Windolph—4.

The Commissioners then adjourned.

HARRY W. WALKER, Secretary.

DEPARTMENT OF PUBLIC CHARITIES.

FOR THE BOROUGH OF BROOKLYN AND QUEENS.

REPORT OF TRANSACTIONS FOR TWO WEEKS ENDING JULY 9, 1901.

DEPARTMENT OF PUBLIC CHARITIES—BOROUGH OF BROOKLYN AND QUEENS,  
Nos. 125 AND 128 LIVINGSTON STREET, BOROUGH OF BROOKLYN,  
NEW YORK CITY, JULY 11, 1901.

June 26.

Reports of labor, census, etc., Hospital and Almshouse, for week ending June 25.

Approved.

Approved bills for Hospital, amounting to \$2,658.74, and transmitted same to Auditor.

Received notice of appeal in the case of Jennie Merselaar vs. Simon Merselaar, held on charge of abandonment, and transmitted same to Corporation Counsel. (Lake O'Reilly, attorney for applicant.)

June 28.

Approved following bills and transmitted same to Auditor:

Supplies..... \$4,072 34

Rent..... 500 00

Table with 2 columns: Item and Amount. Includes Transportation of Paupers (\$27.00), Donations to Grand Army Veterans (50.00), Hospitals (760.28), Institutions (9,032.60).

July 1.

Approved following bills and transmitted same to Auditor:  
Institutions..... \$1,580 86  
Hospitals..... 1,585 60

Approved pay-roll for the month of June, amounting to \$12,155.24.  
Mortimer Whiting, Mary McManamin, Kate Donovan and Sally Taylor, resigned June 30, 1901.

James Hamilton, Edward O'Rourke, Joseph Boatke, Thomas Coyne and Peter Garvey, Hospital Helpers, discharged June 30, 1901.

Lizzie King, Wet Nurse, resigned June 30, 1901.

Charles Kiernan, John Waters, Michael Dowling and Ida Schumann, employed as Hospital Helpers, Coney Island Hospital, at \$12 per month each, on July 1, 1901.

Katie J. Keogh, employed temporarily as Hospital Helper at the Almshouse, at \$20 per month.

Elizabeth A. Dalton, temporarily employed as Hospital Helper at the Almshouse, at \$15 per month.

Sally Taylor, employed temporarily as Cook at the Coney Island Hospital, at \$16 per month.

Mortimer Whiting, employed temporarily as Hospital Helper at Coney Island Hospital, at \$25 per month.

Kate Donovan, employed temporarily as Hospital Helper at Coney Island Hospital, at \$16 per month.

July 2.

The following reports for week ending July 2, received and placed on file:

Table with 2 columns: Item and Amount. Includes Dependent children committed (34), Orders for abandonment warrants (22), Letters to delinquent husbands (30), Admissions to Almshouse (67), Admissions to Hospital (182), Petitions for observation cases (15), Burial orders issued (7), Burial permits issued (27), Application for blind pension (15), Ambulance calls received and sent (44).

July 3.

Reports of census, labor, etc., Hospital and Almshouse, for week ending July 2, approved.

Received copy of order continuing lien against Cavanaugh Bros. & Knapp, contractors for repairing roof at Kings County Hospital—Maurice F. Westergren, honor—amount of lien, \$887.20. Phillips & Avery, attorneys for lienor, and transmitted same to Corporation Counsel.

Received and placed on file communication from J. T. Outyes, General Medical Superintendent, Kings County Hospital, relative to transfer of insane patients to Long Island State Hospital at Flatbush and Kings Park.

Maudie Kiernan, employed as Hospital Helper, at \$10 per month (temporary).

July 5.

Approved weekly requisitions of the various institutions.

July 6.

Thomas O'Keefe, Oscar Smith, Charles O'Brien and James Maloney, employed as Hospital Helpers, at \$12 per month each, on July 5.

Daniel J. Cassidy, temporarily employed as Hospital Helper, at \$10 per month, on July 5.

Patrick E. Burke, Hospital Helper, discharged, July 5.

July 8.

Michael Walsh, Orderly, reinstated at \$100 per annum.

James Flynn, Hospital Helper, discharged July 6.

William F. Carson, Hospital Helper, resigned July 6.

Minnie Muschette, Pupit Nurse, and William J. S. Dinsion, Junior Clerk, resigned July 7, 1901.

J. J. Hunt, Hospital Helper, resigned July 8.

July 9.

Effectuated compromise in the matter of Sophia Paschendorf vs. Otto Bauns.

Received communication from M. M. Clark of No. 214 Sixth avenue, offering clothing for the inmates of the institutions.

Received and placed on file communication from New York Prison Institute, relative to Frieda Krimmich, of Hular street, Long Island City, who was bitten by a dog.

J. J. Hunt, employed as Hospital Helper, at \$12 per month (temporary).

Charles G. McAllen, employed as Hospital Helper, at \$12 per month.

Mary Sheridan, employed as Landress, on July 8, at \$20 per month.

The following reports, for week ending July 9, 1901, received and placed on file:

Table with 2 columns: Item and Amount. Includes Dependent children committed (33), Orders for abandonment warrants (24), Letters to delinquent husbands (29), Admissions to Almshouse (152), Admissions to Hospital (162), Petitions for observation cases (10), Burial orders issued (7), Burial permits issued (37), Ambulance calls received and sent (44).

A. H. GOETTING, Commissioner, etc.

CHANGE OF GRADE DAMAGE COMMISSION.

OFFICE OF THE COMMISSION,  
ROOM 58, NO. 96 BROADWAY, NEW YORK CITY,  
FRIDAY, February 15, 1901, at 2 o'clock P. M.

The Commission met pursuant to adjournment.

Present—William E. Stillings (Chairman), Charles A. Jackson and Oscar S. Bailey, Commissioners.

The reading of the minutes of the proceedings of the previous meeting was dispensed with.

The Commission then, in executive session, examined, discussed and considered the depositions, testimony, photographs and other evidence in certain claims heretofore submitted.

The Commission then adjourned to Monday, February 18, 1901, at 2 o'clock P. M.

LAMONT McLOUGHLIN, Clerk.

CHANGE OF GRADE DAMAGE COMMISSION.

OFFICE OF THE COMMISSION,  
ROOM 58, NO. 96 BROADWAY, NEW YORK CITY,  
MONDAY, February 18, 1901, at 2 o'clock P. M.

The Commission met pursuant to adjournment.

Present—William E. Stillings (Chairman), Charles A. Jackson and Oscar S. Bailey, Commissioners.

The reading of the minutes of the proceedings of the previous meeting was dispensed with.

The Commission then, in executive session, examined, discussed and considered the depositions, testimony, photographs and other evidence in certain claims heretofore submitted.

The Commission then adjourned to Wednesday, February 20, 1901, at 2 o'clock P. M.

LAMONT McLOUGHLIN, Clerk.

APPROVED PAPERS.

No. 813.

Resolved, That permission be and the same is hereby given to Charles Heusted to erect, place and keep bay-window in front of his premises, No. 131 Remsen street, Borough of Brooklyn, and to remove old bay-window, size, eleven feet wide and four feet six inches from building-line, and to replace with new fireproof, twelve feet wide and five feet from building-line, on second story up, the work to be done at his own expense, under the direction of the Commissioner of Highways; such permission to continue only during the pleasure of the Municipal Assembly.

Adopted by the Board of Aldermen, July 2, 1901.

Adopted by the Council, July 2, 1901.

Approved by the Mayor, July 10, 1901.

DEPARTMENT OF PUBLIC CHARITIES.

DEPARTMENT OF PUBLIC CHARITIES, BOROUGHS OF BROOKLYN AND QUEENS, NOS. 126 AND 128 LIVINGSTON STREET, BOROUGH OF BROOKLYN, NEW YORK CITY, JULY 17, 1901.

Changes in Payroll of the Department of Public Charities for the Boroughs of Brooklyn and Queens, from July 5, 1901.

KINGS COUNTY HOSPITAL.

Appointments.

- July 9. Charles G. McAllan, Hospital Helper, at \$144 per annum.
July 10. Annie Lute, Hospital Helper, at \$144 per annum.
July 11. Fredk Hoffman, Hospital Helper, at \$144 per annum (Abolished).
July 12. Elizabeth B. Read, Hospital Helper, at \$360 per annum (temporary).
July 13. William Schallenberg, Hospital Helper, at \$240 per annum (temporary).
July 14. Emil Ericson, Trained Nurse, at \$360 per annum.

Resignations.

July 10. Miss Anna Kattenhorn, Pupit Nurse.

Discharge.

July 5. Robert Boylay, Hospital Helper, Kings County Almshouse. A. H. GOETTING, Commissioner, etc.

NEW EAST RIVER BRIDGE COMMISSION.

CITY OF NEW YORK, NEW EAST RIVER BRIDGE COMMISSION, NO. 258 BROADWAY, NEW YORK, JULY 17, 1901.

Supervisor of the City Record.

DEAR SIR—You are hereby notified that the salary of Western K. Bascom, an Assistant Engineer in the employ of this Commission, has been fixed at \$2,000 per annum, and that the salary of John D. Wilkins, also an Assistant Engineer in the employ of this Commission, has been fixed at \$2,750 per annum, both of which are to take effect on August 1, 1901.

Respectfully, JAMES D. BELL, Commissioner and Secretary.

DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, CITY OF NEW YORK, COMMISSIONER'S OFFICE, PARK ROW BUILDING, MANHATTAN, NEW YORK CITY, N. Y., JULY 17, 1901.

Supervisor of the City Record.

SIR—You are hereby notified that John McNally, No. 205 East One Hundred and Seventh street, Manhattan, has been transferred from the Department of Highways, Borough of Manhattan, as Laborer on bridges over the Harlem river and in the Borough of Manhattan, at a compensation of \$2 per day, to date from July 18, 1901.

Respectfully, JOHN L. SHEA, Commissioner of Bridges.

DEPARTMENT OF PARKS.

THE CITY OF NEW YORK, DEPARTMENT OF PARKS, OFFICE OF COMMISSIONER FOR THE BOROUGH OF THE BRONX, ZIBROWSKI MANSION, CLAREMONT PARK, JULY 17, 1901.

Supervisor of the City Record.

DEAR SIR—Pursuant to section 154b, chapter 378, Laws of 1897, I hereby notify you, for publication in the CITY RECORD, that I have promoted Henry L. Bridges from Laborer to Foreman, at a compensation of \$100 per month, to take effect August 1.

Respectfully yours, AUGUST MOERUS, Commissioner of Parks, Borough of The Bronx.

MUNICIPAL ASSEMBLY.

THE CITY OF NEW YORK, OFFICE OF THE CITY CLERK, CITY HALL, NEW YORK, JULY 18, 1901.

To whom it may concern:

There will be a public hearing before the Joint Committee on Railroads of the Council and Board of Aldermen in the Council Chamber on Thursday, July 25, 1901, at 2.30 o'clock P. M., to consider the application of the Union Railway Company.

P. J. SCULLY, City Clerk.

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 of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts:

EXECUTIVE DEPARTMENT. Mayor's Office. No. 6 City Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. ROBERT A. VAN WYCK, Mayor. ALFRED M. DOWNS, Private Secretary. Bureau of Licenses. 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. DAVID J. ROGERS, Chief of Bureau. Principal Office, Room 7, City Hall. GEORGE W. BROWN, JR., Deputy Chief in Boroughs of Manhattan and The Bronx. Branch Office, Room 12, Borough Hall, Brooklyn.

WILLIAM H. JORDAN, Deputy Chief in Borough of Brooklyn. Bureau Office, "Richmond Building," New Brighton, S. I.; WILLIAM H. MCCABE, Deputy Chief in Borough of Richmond. Borough Office, "Hackett Building," Long Island City; PETER FLANAGAN, Deputy Chief in Borough of Queens.

THE CITY RECORD OFFICE, and Bureau of Printing, Stationery and Blank Books. No. 2 City Hall, 9 A. M. to 4 P. M.; Saturday, 9 A. M. to 12 M. WILLIAM A. BOWLER, Supervisor; SOLON BERGICK, Deputy Supervisor; THOMAS C. COWELL, Deputy Supervisor and Assistant.

MUNICIPAL ASSEMBLY.

THE COUNCIL. RANOLDPH GOODENOUGH, President of the Council. P. J. SCULLY, City Clerk. Clerk's office open from 10 A. M. to 4 P. M.; Saturdays, 10 A. M. to 12 M.

BOARD OF ALDERMEN. THOMAS F. WORTH, President. MICHAEL P. BLAKE, Clerk.

COMMISSIONERS OF ACCOUNTS. Room 114 and 112 Stewart Building, 9 A. M. to 4 P. M. JOHN S. HERRIN and EDWARD OWEN, Commissioners.

BOROUGH PRESIDENTS.

Borough of Manhattan. Office of the President of the Borough of Manhattan, Nos. 12, 14 and 12 City Hall. 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. JAMES J. COUGHLIN, President. IRA EDGAR KILMER, Secretary.

Borough of The Bronx. Office of the President of the Borough of The Bronx, corner Third avenue and One Hundred and Seventy-seventh street. 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. JOHN P. HAYES, President.

Borough of Brooklyn. President's Office, No. 11 Borough Hall, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. EDWARD M. GROUT, President.

Borough of Queens. FREDERICK BOWLEY, President. Office, Long Island City, 9 A. M. until 4 P. M.; Saturdays, from 9 A. M. until 12 M.

Borough of Richmond. GEORGE UNDERHILL, President. Office of the President, First National Bank Building, New Brighton 1 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

BOARD OF ARMOY COMMISSIONERS. THE MAYOR, ROBERT A. VAN WYCK, Chairman; THE COMMISSIONER OF THE DEPARTMENT OF TAXES AND ASSESSMENTS, THOMAS L. FRIEZE, Secretary; THE COMMISSIONER OF PUBLIC BUILDINGS, LIGHTING AND SUPPLIES, HENRY S. KEARNEY, Brigadier-General; JAMES McLEOD, and Brigadier-General McCOSKEY, Capt. Commissioners. Address: THOMAS L. FRIEZE, Secretary, Stewart Building. Office hours: 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

PUBLIC ADMINISTRATOR. No. 110 Nassau street, 9 A. M. to 4 P. M. WILLIAM M. HOES, Public Administrator.

PUBLIC ADMINISTRATOR, KINGS COUNTY. No. 125 Montague street, Brooklyn, 9 A. M. to 4 P. M., except Saturdays in June, July and August, 9 A. M. to 1 P. M. Wm. D. DAVENPORT, Public Administrator.

PUBLIC ADMINISTRATOR, QUEENS COUNTY. No. 103 Third street, Long Island City. CHARLES A. WALKER, Public Administrator.

COMMISSIONERS OF THE SINKING FUND. THE MAYOR, Chairman; BRID S. COLER, Comptroller; PATRICK KEENE, Clerk; RANOLDPH GOODENOUGH, President of the Council, and RANOLDPH MORGAN, Chairman, Finance Committee; Board of Aldermen, Members: EDGAR J. LEVY, Secretary. Office of Secretary, Room No. 11, Stewart Building.

BOARD OF ESTIMATE AND APPORTIONMENT. THE MAYOR, Chairman; THOMAS L. FRIEZE (President), Department of Taxes and Assessments, Secretary; THE COMPTROLLER, President of the Council and the CORPORATION COUNSEL, Members; CHARLES V. ADER, Clerk. Office of Clerk, Department of Taxes and Assessments, Room R, Stewart Building, 9 A. M. to 4 P. M.; Saturdays, 12 M.

AQUEDUCT COMMISSIONERS. Room 207 Stewart Building, 5th floor, 9 A. M. to 4 P. M. JOHN J. RYAN, MAURICE J. POWRI, WILLIAM H. TER EVCE, JOHN P. WINDLEPH and THE MAYOR and COMPTROLLER, Commissioners; HARRY W. WALKER, Secretary; WILLIAM R. HILL, Chief Engineer.

DEPARTMENT OF FINANCE. Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. BRID S. COLER, Comptroller. MICHAEL T. DALY, EDGAR J. LEVY, Deputy Comptrollers. Auditing Bureau. JOHN F. GOULDSBURY, Auditor of Accounts. F. L. W. SCHAFFNER, Auditor of Accounts. F. J. BRETTMAN, Auditor of Accounts. MOSES OPPENHEIMER, Auditor of Accounts. WILLIAM MCKINNEY, Auditor of Accounts. DANIEL H. PHILLIPS, Auditor of Accounts. EDWARD J. CONNELL, Auditor of Accounts. FRANCIS R. CLARK, Auditor of Accounts. WILLIAM J. LYON, Auditor of Accounts. JAMES F. MCKINNEY, Auditor of Accounts. PHILIP J. McEVON, Auditor of Accounts. JEREMIAH T. MAHONEY, Auditor of Accounts.

Bureau for the Collection of Assessments and Arrears. EDWARD GILMAN, Collector of Assessments and Arrears. EDWARD A. SLATTERY, Deputy Collector of Assessments and Arrears, Borough of Manhattan. JAMES E. STANFORD, Deputy Collector of Assessments and Arrears, Borough of The Bronx. MICHAEL O'KEEFE, Deputy Collector of Assessments and Arrears, Borough of Brooklyn. JOHN F. ROGERS, Deputy Collector of Assessments and Arrears, Borough of Queens. GEORGE BRAND, Deputy Collector of Assessments and Arrears, Borough of Richmond. Bureau for the Collection of Taxes. DAVID E. AUSTIN, Receiver of Taxes. JOHN J. McDONOUGH, Deputy Receiver of Taxes, Borough of Manhattan. JOHN E. UNDERHILL, Deputy Receiver of Taxes, Borough of The Bronx. JAMES B. BOUCK, Deputy Receiver of Taxes, Borough of Brooklyn.

FREDERICK W. BLECKWISS, Deputy Receiver of Taxes, Borough of Queens. MATTHEW S. TOLLY, Deputy Receiver of Taxes, Borough of Richmond.

Bureau for the Collection of City Revenue and of Markets. DAVID O'BRIEN, Collector of City Revenue and Superintendent of Markets. ALEXANDER MERRIN, Clerk of Markets. Bureau of the City Chamberlain. PATRICK KEENE, City Chamberlain. JOHN H. CAMPBELL, Deputy Chamberlain. Office of the City Paymaster. No. 57 Chambers street and No. 65 Reade street. JOHN H. TRAMERMAN, City Paymaster.

BOARD OF PUBLIC IMPROVEMENTS. Nos. 13 to 21 Park Row, 12th floor, 9 A. M. to 12 Saturdays, 9 A. M. to 12 M. MAURICE F. HUGHAN, President. JOHN H. MOONEY, Secretary. Department of Highways. Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M. JAMES P. KEARNEY, Commissioner of Highways. WILLIAM N. STANNON, Deputy for Manhattan. THOMAS R. FARMER, Deputy for Brooklyn. JAMES H. MALONEY, Deputy for Bronx. CHARLES C. WISSER, Deputy for Queens. HENRY P. MORRISON, Deputy and Chief Engineer for Richmond. Office, "Richmond Building," corner Richmond Terrace and York avenue, New Brighton, S. I. Department of Sewers. Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M. JAMES KANE, Commissioner of Sewers. MATTHEW F. DONOHUE, Deputy for Manhattan. THOMAS J. BYRNES, Deputy for Bronx. Office, Third avenue and One Hundred and Seventy-seventh street. WILLIAM BRENNAN, Deputy for Brooklyn. Office, Municipal Building, Room 42. MATTHEW J. GOLDBER, Deputy Commissioner of Sewers, Borough of Queens. Office, Hackett Building, Long Island City. HENRY P. MORRISON, Deputy Commissioner and Chief Engineer of Sewers, Borough of Richmond. Office, "Richmond Building," corner Richmond Terrace and York avenue, New Brighton, S. I. Department of Bridges. Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. JOHN L. SUSA, Commissioner. THOMAS H. YORK, Deputy. SAMUEL R. PROSSNER, Chief Engineer. MATTHEW H. MOORE, Deputy for Bronx. HARRY BRAM, Deputy for Brooklyn. JOHN K. BACRUS, Deputy for Queens. Department of Water Supply. Nos. 13 to 21 Park Row. Office hours, 9 A. M. to 4 P. M. WILLIAM DALTON, Commissioner of Water Supply. JAMES H. HASLIE, Deputy Commissioner, Borough of Manhattan. GEORGE W. HINDALL, Chief Engineer. W. G. BYRNE, Water Registrar. JAMES MORRETT, Deputy Commissioner, Borough of Brooklyn, Municipal Building, Brooklyn. LAWRENCE GREENE, Deputy Commissioner, Borough of Queens, Long Island City. THOMAS J. MULLIGAN, Deputy Commissioner, Borough of The Bronx, Crutona Park Building. HENRY P. MORRISON, Deputy Commissioner, Borough of Richmond. Office, "Richmond Building," corner Richmond Terrace and York avenue, New Brighton, S. I. Department of Street Cleaning. Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M. PRINCIVAL E. NAGLE, Commissioner. P. M. GIBSON, Deputy Commissioners for Borough of Manhattan. PATRICK H. QUINN, Deputy Commissioner for Borough of Brooklyn, Room 37, Municipal Building. JAMES L. LIBERTY, Deputy Commissioner for Borough of The Bronx, No. 534 Wildes avenue. JAMES P. O'BRIEN, Deputy Commissioner for Borough of Queens, No. 48 Jackson avenue, Long Island City. Department of Buildings, Lighting and Supplies. Nos. 13 to 21 Park Row, 9 A. M. to 4 P. M. HENRY S. KEARNEY, Commissioner of Public Buildings, Lighting and Supplies. PETER J. DOOLING, Deputy Commissioner for Manhattan. GEO. E. BRET, Deputy Commissioner for The Bronx. JAMES J. KEWIS, Deputy Commissioner for Brooklyn. JOEL FOWLER, Deputy Commissioner for Queens. EDWARD L. MILLER, Deputy Commissioner for Richmond. LAW DEPARTMENT. Office of Corporation Counsel. Staats-Zeitung Building, 3d and 4th floors, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M. JOHN WHELAN, Corporation Counsel. TROBROCK CONNOLLY, W. W. LADD, JR., CHARLES BLANDY, GEORGE HILL, Assistants. WILLIAM J. CARR, Assistant Corporation Counsel for Brooklyn. Bureau for Collection of Arrears of Personal Taxes. Stewart Building, Broadway and Chambers street, 9 A. M. to 4 P. M. JAMES C. SPENCER, Assistant Corporation Counsel. Bureau for the Recovery of Fines. Nos. 110 and 121 Nassau street. ADRIAN T. KIRKMAN, Assistant Corporation Counsel. Bureau of Street Openings. Nos. 90 and 92 West Broadway. JOHN P. DUNN, Assistant to Corporation Counsel. POLICE DEPARTMENT. Central Office. No. 100 Mulberry street, 9 A. M. to 4 P. M. MICHAEL C. MURPHY, Commissioner. WILLIAM S. DEVERLY, First Deputy Commissioner. BERNARD J. YORK, Second Deputy Commissioner. BOARD OF ELECTIONS. Commissioners—JOHN R. VOORHIS (President), CHARLES B. PAGE (Secretary), JOHN MAGUIRE, MICHAEL J. DADY. Headquarters, General Office, No. 391 Mott street. A. C. ALLEN, Chief Clerk. Office, Borough of Manhattan, No. 302 Mott street. WILLIAM C. BAXTER, Chief Clerk. Office, Borough of The Bronx, One Hundred and Thirty-eighth street and Mott avenue (Solingen Building). CORNELIUS A. BUSHNER, Chief Clerk. Office, Borough of Brooklyn, No. 10 Smith street. GEORGE RUSSELL, Chief Clerk. Office, Borough of Queens, Police Station, Astoria. EARL VOORHIS, Chief Clerk. Office, Borough of Richmond, Staten Island Savings Building, Stapleton, S. I. ALEXANDER M. ROSS, Chief Clerk. All offices open from 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. DEPARTMENT OF PUBLIC CHARITIES. Central Office. Foot of East Twenty-sixth street, 9 A. M. to 4 P. M. JOHN W. KELLER, President of the Board; Commissioner for Manhattan and Bronx. Deputy Commissioner. ADOLPH H. GOETTING, Commissioner for Brooklyn and Queens, Nos. 126 and 128 Livingston street, Brooklyn.

EDWARD GLOSBERG, Deputy Commissioner. JAMES FERRY, Commissioner for Richmond. Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M.; Saturdays, 12 M. Out-door Poor Department. Office hours, 9:30 A. M. to 4:30 P. M. Department for Care of Destitute Children, No. 66 Third avenue, 9:30 A. M. to 4:30 P. M.

DEPARTMENT OF CORRECTION.

Central Office. Nos. 148 East Twentieth street. Office hours from 9 A. M. to 4 P. M.; Saturdays 10 to 12 M. FRANCIS J. LEBRY, Commissioner. N. O. FANNING, Deputy Commissioner. JOHN MONTAGNER GRAY, Deputy Commissioner for Boroughs of Brooklyn and Queens.

FIRE DEPARTMENT.

Office hours for all, except when otherwise noted, from 9 A. M. to 4 P. M.; Saturdays, 10 to 12 M. Headquarters. Nos. 127 and 129 East Fifty-seventh street. JOHN J. STANFELL, Fire Commissioner. JAMES H. TOLLY, Deputy Commissioner, Borough of Brooklyn and Queens. ALFRED T. BOCHANEY, Secretary. EDWARD F. COOKER, Chief of Department and in Charge of Fire-alarm Telegraph. JAMES DATE, Deputy Chief in Charge of Borough of Brooklyn and Queens. GEORGE E. MCGRAW, Inspector of Combustibles. PETER BERRY, Fire Marshal, Borough of Manhattan, The Bronx and Richmond. ALBERT HAYMER, Fire Marshal, Borough of Brooklyn and Queens. Central Office open at all hours. Committee to examine persons who hold fire-licenses meets Thursday of each week, 10 to 12 o'clock P. M.

DEPARTMENT OF DOCKS AND FERRIES.

Fire "A," N. R., Ferry Pier. J. SHERMAN CHASE, President; CHARLES F. MANNING, Treasurer; PETER F. MYERS, Commissioner. WILLIAM H. BROWN, Secretary. Office hours, 9 A. M. to 4 P. M.; Saturdays, 10 to 12 M. DEPARTMENT OF HEALTH. Southwest corner of Fifty-fifth street and Sixth avenue, 9 A. M. to 4 P. M. Bureau of Sanitary and Contagious Diseases Office always open. JOHN R. SUTTON, President, and WILLIAM P. DECKER, M. D., JESSE B. COOPER, M. D., are members of the Board of Health, and the Health Officer of the Port, Assistant Commissioner, CASPAR GOLDSMAN, Secretary pro tem. CHARLES E. ROBERTS, M. D., Sanitary Superintendent. FREDERICK H. DELANEY, M. D., Assistant Sanitary Superintendent, Borough of Manhattan. EDWARD MORRIS, M. D., Assistant Sanitary Superintendent, Borough of The Bronx. ROBERT A. BLAKE, M. D., Assistant Sanitary Superintendent, Borough of Brooklyn. CHARLES L. LITTLE, M. D., Assistant Sanitary Superintendent, Borough of Queens. JOHN L. EMMETT, M. D., Assistant Sanitary Superintendent, Borough of Richmond.

DEPARTMENT OF PARKS.

GEORGE C. CLARKE, President, Park Board, Commissioner in Manhattan and Richmond. WILLIS HULLY, Secretary, Park Board. Office, Animal Central Park. GEORGE V. BROWN, Commissioner in Brooklyn and Queens. Office, City Hall, Brooklyn, and Orchard Museum, Prospect Park. AUGUST MOERUS, Commissioner in Borough of The Bronx. Office, Zibrowski Mansion, Claremont Park. Office hours, 9 A. M. to 4 P. M.; Saturdays, 10 to 12 M. At Commissioners. SAMUEL P. AVERY, DANIEL C. FERRIS, Commissioners.

DEPARTMENT OF BUILDINGS.

Main Office, No. 100 Fourth avenue, Borough of Manhattan. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. JAMES G. WALLACE, President of the Board of Buildings and Commissioner for the Boroughs of Manhattan and The Bronx. JOHN DELANEY, Commissioner for the Borough of Brooklyn. DANIEL CAMPBELL, Commissioner for the Borough of Queens and Richmond. A. J. JOHNSON, Secretary. Office of the Department for the Boroughs of Manhattan and The Bronx, No. 280 Fourth avenue, Borough of Manhattan. Office of the Department for the Borough of Brooklyn, Borough Hall, Borough of Brooklyn. Office of the Department for the Boroughs of Queens and Richmond, Richmond Hall, New Brighton, Staten Island, Borough of Richmond. Branch Office: Room 1, second floor, Town Hall, Jamaica, Long Island, Borough of Queens.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Stewart Building, 9 A. M. to 4 P. M.; Saturdays, 12 M. THOMAS L. FRIEZE, President of the Board; EDWARD C. SHERRY, ARTHUR C. SALMON, THOMAS J. PATTERSON, FREDERICK LEVY, Commissioners; HARRY BERLINGER, Chief Clerk.

BUREAU OF MUNICIPAL STATISTICS.

Nos. 13 to 21 Park Row, Room 1011. Office hours from 9 A. M. to 4 P. M.; Saturdays, from 9 A. M. to 12 M. JOHN T. NAGLE, M. D., Chief of Bureau. Municipal Statistical Commission: FREDERICK W. GRUBE, LL. D., ANTONIO RAIBERS, RICHARD T. WELLS, JR., ERNEST HARVEY, J. EDWARD JETTER, THOMAS GILLERAN.

MUNICIPAL CIVIL SERVICE COMMISSION.

No. 346 Broadway, 9 A. M. to 4 P. M. CHARLES H. KNOC, President, ALFRED T. MASON and WILLIAM N. DYCKMAN, Commissioners. LEX PHILLIPS, Secretary.

BOARD OF ASSESSORS.

Office, No. 320 Broadway, 9 A. M. to 4 P. M. EDWARD McCUR (President), EDWARD CASPER, THOMAS A. WILSON, PATRICK M. HAVERTY and JOHN H. MEYERSON, Board of Assessors; WILLIAM H. JASTER, Secretary. THOMAS J. SHILLAY, Chief Clerk.

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. MILTON O'BRIEN, President; A. KENNEDY PALMER, Secretary. School Board for the Boroughs of Manhattan and The Bronx. Park avenue and Fifty-ninth street, Borough of Manhattan. MILTON O'BRIEN, President; WILLIAM J. ELDS, Secretary. School Board for the Borough of Brooklyn. No. 132 Livingston street, Brooklyn. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M. CHARLES E. ROBERTSON, President; GEORGE G. BROWN, Secretary.



Police, in The City of New York, until 11 o'clock A. M. of

TUESDAY, JULY 30, 1901.

The following are the supplies required, viz.: No. 1. FOR FURNISHING COAL IN STATION-HOUSES, ETC., IN THE BOROUGHS OF MANHATTAN, THE BRONX AND RICHMOND.

No. 2. FOR FURNISHING COAL IN STATION-HOUSES, ETC., IN THE BOROUGHS OF BROOKLYN AND QUEENS. The amount of security required will be as follows: No. 1. \$10,000.00 No. 2. 10,000.00

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title of the supply referred to and the number thereof, and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, and place the estimates received will be publicly opened by the head of said Department and read, and the award of the contract made to the lowest bidder with adequate security, as soon thereafter as practicable, if deemed for the best interests of the City so to do.

The coal is to be free burning, of the first quality of either of the kinds known and named as follows: "Scranton," by the Delaware, Lackawanna and Western Railroad Company, or the New York, Ontario and Western Railroad Company. "Lackawanna," by the Delaware and Hudson Canal Company. "Pittston," by the Pennsylvania Coal Company. "Wilkesbarre," by the Lehigh and Wilkesbarre Coal Company. "Jersey," by the New York, Susquehanna and Western Railroad Company.

Bidders will state the kind of anthracite coal they propose to furnish by giving the name of its mine or other business appellation. The Police Commissioner has the right to reject all bids should it be deemed to the interests of the City so to do. The coal is to be delivered during the year 1902, in such quantities and at such times and places as the Inspector of Repairs and Supplies of the Police Department may direct.

OWNERS WANTED BY THE PROPERTY CLERK of the Police Department of The City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boots, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, named goods, liquor, etc.; also small amount money taken from prisoners and found by Patrolmen of this Department.

OWNERS WANTED BY THE DEPUTY PROPERTY CLERK of the Police Department of The City of New York—Office, Municipal Building, Borough of Brooklyn—for the following property, now in his custody, without claimants: Boots, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, named goods, liquor, etc.; also small amount money taken from prisoners and found by Patrolmen of this Department.

DEPARTMENT OF CORRECTION.

DEPARTMENT OF CORRECTION—CITY OF NEW YORK, BOROUGHS OF MANHATTAN. SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE COMMISSIONER OF CORRECTION at the office of the Department of Correction, No. 148 East Twentieth street, in The City of New York, until 11 A. M. on

THURSDAY, JULY 25, 1901,

for furnishing and delivering the following-named supplies and performing the work set forth, viz.:

Borough of Brooklyn. No. 1. FOR FURNISHING LUMBER AND MISCELLANEOUS ARTICLES. Borough of Manhattan. No. 2. FOR FURNISHING STEAMBOAT AND STABLE GOODS AND UTENSILS, PLUMBERS' AND PAINTERS' SUPPLIES, HARDWARE, LUMBER, LIME AND OTHER MISCELLANEOUS SUPPLIES.

The time to be allowed for the full completion of each contract and the amount of security required for the faithful performance of the several contracts mentioned above are respectively as follows: Time. On Contract No. 1, in ten days after notice. On Contract No. 2, during 1901. Security. 50 per cent. of amount of bid. The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be

publicly opened by the head of said Department and read and the award of the contract made according to law as soon thereafter as practicable. Each 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 Municipal Assembly, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein or in the supplies or work to which it relates, or in any portion of the profits thereof. The 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.

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 a surety and shall contain the matters set forth in the blank form of bid mentioned below. No estimate will be received or considered unless accompanied by a certified check or money to the amount of five per centum of the amount of the bond required, as provided in section 400 of the Greater New York Charter.

For particulars as to the quantity and quality of the supplies, or the nature and extent of the work required, or of the materials to be furnished, bidders are referred to the printed specifications. For samples, bidders are referred to the Kings County Penitentiary and offices of the Department in the respective boroughs. 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 include the bid, together with a copy of the contract, including the specifications in the form approved by the Corporation Council, can be obtained upon application therefor at the office of the Commissioner, or at the office of the General Bookkeeper and Auditor.

FRANCIS J. LANTRY, Commissioner.

MUNICIPAL CIVIL SERVICE COMMISSION.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 348 BROADWAY, NEW YORK, July 17, 1901. PUBLIC NOTICE IS HEREBY GIVEN THAT an open competitive examination will be held for the position of ASSESSOR, commencing July 24, 1901. The subjects of the examination will be as follows: Bookkeeping, Arithmetic, Technical knowledge, Experience. The time of filing application for said examination will expire on Monday, the 22nd day of July, 1901, at 4 P. M.

LEE PHILLIPS, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 348 BROADWAY, NEW YORK, July 17, 1901. PUBLIC NOTICE IS HEREBY GIVEN THAT an open competitive examination will be held for the position of SUPERINTENDENT OF DAM CONSTRUCTION (Aqueduct Commission), on Friday, August 3, 1901. The subjects of the examination will be as follows: Bookkeeping, Arithmetic, Technical knowledge, Experience. The time of filing application for said examination will expire on Monday, the 22nd day of July, 1901, at 4 P. M.

LEE PHILLIPS, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 348 BROADWAY, NEW YORK, July 17, 1901. PUBLIC NOTICE IS HEREBY GIVEN THAT an open competitive examination will be held for the position of ASSISTANT BACTERIOLOGIST, on Monday, July 23, 1901. Second grade, annual compensation more than \$900 but not more than \$1,200. The subjects of the examination will be as follows: Technical knowledge, Experience, Mathematics, Reports.

LEE PHILLIPS, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 348 BROADWAY, NEW YORK, July 17, 1901. PUBLIC NOTICE IS HEREBY GIVEN THAT an open competitive examination will be held for the position of ASSISTANT BACTERIOLOGIST, on Wednesday, July 31, 1901. Third grade, annual compensation more than \$900 but not more than \$1,200. The subjects of the examination will be as follows: Technical knowledge, Experience, Mathematics, Reports.

LEE PHILLIPS, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 348 BROADWAY, NEW YORK, July 17, 1901. PUBLIC NOTICE IS HEREBY GIVEN THAT an open competitive examination will be held for the position of ASSISTANT BACTERIOLOGIST, on Wednesday, July 31, 1901. Third grade, annual compensation more than \$900 but not more than \$1,200. The subjects of the examination will be as follows: Technical knowledge, Experience, Mathematics, Reports.

LEE PHILLIPS, Secretary.

DEPARTMENT OF DOCKS AND FERRIES.

PHILIP A. SMYTH, AUCTIONEER, WILL sell, on behalf of the Board of Docks, on

THURSDAY, JULY 25, 1901, commencing at 10 o'clock A. M., at the foot of West Thirtieth street, in the Borough of Manhattan, and continuing at the places designated, the following lots of old material:

- At Foot of West Thirtieth Street, North River. Lot No. 1. The ferry-house (except the floor of same), recently occupied by the Pennsylvania Railroad Company south of and near the foot of West Thirtieth street, North river, together with the fence inclosing the platform south of same. The greater portion of the ferry-house is built with iron columns and trusses and covered with corrugated iron. It extends about 120 feet along Thirtieth avenue, and is about 44 feet deep. The purchaser shall take down, remove and dispose of, in accordance with the law, all of the material in the above structures, except the floor of the ferry-house, within 20 days from date of sale. If the purchaser fails to effect the removal of all material within 20 days from date of sale, he shall forfeit his purchase-money and the ownership of the material. The purchaser shall not throw overboard or allow to go adrift any of the materials of the above structures. The purchaser shall take all the necessary precautions to guard and protect persons and property from injury on account of his operations in the taking down and removal of the above structures. " 2. About 9,300, R. M., feet white oak 6-inch and 5-inch plank.

- At Pier 20, East River. Lot No. 3. 44 iron trusses, 2 feet deep, 28 feet long, 24 iron trusses, 2 inches deep, 44 feet long, 44 iron trusses, 4 feet long, 29 feet 6 inches long, 44 iron posts, 24 feet 6 inches long, 22 iron posts, 18 feet 6 inches long, About 4,000 linear feet various-sized angle-iron. " 4. About 2,000 square feet of scrap corrugated iron.

- At Wallabout Basin, Borough of Brooklyn. Lot No. 5. Raft of about 30 spruce poles. Average length about 32 feet. " 6. Raft generally of 4 inches by 10 inches and 6 inches by 10 inches oak. Length about 7 feet, width about 25 feet, depth about 3 feet. " 7. Raft of about 146 yellow pine pile butts. Average length about 22 feet. " 8. Raft generally of 4 inches by 10 inches and 6 inches by 10 inches oak, and 12 by 12 yellow pine. Length about 30 feet, width about 25 feet, depth about 3 feet. Lot No. 10. Raft of about 30 yellow pine pile butts. Average length about 22 feet. " 11. Raft generally of 4 inches by 10 inches and 6 by 10 inches yellow pine. Length about 30 feet, width about 25 feet, depth about 3 feet. " 12. Raft of about 40 spruce poles. Average length about 30 feet. Lot No. 13. Raft of about 120 piles spruce and pine. Average length about 62 feet. " 14. Raft of about 20 yellow pine pile butts. Average length about 22 feet. " 15. Raft of about 40 yellow pine butts. Average length about 22 feet. " 16. Raft generally of 4 inches by 10 inches and 6 by 10 inches and 12 inches by 12 inches yellow pine. Length about 35 feet, width about 25 feet, depth about 3 feet. " 17. One catamaran, generally of oak piles and timbers. About 45 piles. About 25 catamarans. Length about 30 feet, width about 30 feet, depth about 3 feet. " 18. Raft, generally of 4 by 10 yellow pine. Length about 30 feet, width about 25 feet, depth about 3 feet. " 19. Raft of mixed sizes of oak and yellow pine. Length about 40 feet, width about 25 feet, depth about 3 feet. " 20. One raft of old steel material. Length about 40 feet, width about 25 feet, depth about 3 feet. " 21. Raft of old steel material. Length about 47 feet, width about 25 feet, depth about 3 feet. " 22. Raft of 14 inches by 14 inches timber and old spruce piles. Length about 45 feet, width about 25 feet, depth about 3 feet 6 inches. " 23. One bunch of about 44 pile butts, from 20 to 28 feet long. " 24. One bunch of about 44 pile butts, from 20 to 28 feet long. " 25. One bunch of about 40 pile butts, from 20 to 28 feet long. " 26. One bunch of about 20 pile butts, from 20 to 28 feet long.

TERMS OF SALE. The sale will commence at 10 o'clock A. M. Each of the above lots will be sold separately and for a sum in gross.

The estimated quantities stated in the several lots are believed to be correct, but the Department will not make any allowance from the purchase-money for short deliveries on any lot, and bidders must judge for themselves as to the correctness of the estimate of quantity when making their bids. The catamarans mentioned in the above lots are not included in the sale, and are not to be removed from the Wallabout Basin. If the purchaser or purchasers fails or fail to effect the removal of the material within ten days from the date of sale (excepting Lot No. 1), he or they shall forfeit his or their purchase-money or moneys and the ownership of the material. Terms of sale to be cash, to be paid at the time of sale. An order will be given for the material purchased. Dated New York, July 17, 1901.

J. SERGEANT GRAM, CHAS. F. MURPHY, PETER F. MEYER, Commissioners composing the Board of Docks.

DEPARTMENT OF DOCKS AND FERRIES, PIER "A," BATTERY PLACE, NORTH RIVER, NEW YORK CITY.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE BOARD OF DOCKS, at the office of said Board, on Pier "A," foot of Battery place, North river, in The City of New York, at 12 o'clock, P. M., on

MONDAY, JULY 22, 1901, at which time and place the estimates will be publicly opened by the head of said Board:

No. 719. FOR PREPARING FOR AND BUILDING A NEW WOODEN PIER, WITH APPURTENANCES, AT THE FOOT OF WALL STREET, EAST RIVER, BOROUGHS OF MANHATTAN, TO BE KNOWN AS PIER NO. 14, EAST RIVER.

All the work to be done under this contract (except about 30 feet of the inshore end of the pier, which may not be constructed until the bulkhead wall is constructed by the Department of Docks and Ferries) is to be wholly completed on or before the expiration of ninety days after the date of service of notification to begin said work, and the said 30 feet are to be completed within forty-five days after notice shall be given to the contractor by the Engineer-in-Chief of the Department. The security required will be Ten Thousand Dollars. The person or persons making a bid or estimate shall furnish the same in a sealed envelope, indorsed with the title given above of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of said Department and read, and the award of the contract made according to law as soon thereafter as possible. Each bid or estimate shall contain the name and place of residence of each of the persons 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; 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 Municipal Assembly, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work 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. 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 form of bid mentioned below.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the Chase or National Banks of The City of New York, drawn to the order of the Comptroller of The City of New York, or money to the amount of five per centum of the amount of the security required, as provided in section 400 of the Greater New York Charter.

For particulars as to the quantity and quality of the materials or the nature and extent of the work required, bidders are referred to the specifications.

The Board reserves the right to reject all bids or estimates if deemed to be for the interests of the City so to do.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Board, a copy of which, with the proper envelope in which to include the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Council, can be obtained upon application therefor at the office of the Board.

Dated July 19, 1901. J. SERGEANT GRAM, CHAS. F. MURPHY, PETER F. MEYER, Commissioners composing the Board of Docks.

PHILIP A. SMYTH, AUCTIONEER. SALE OF FERRY FRANCHISES.

THE FRANCHISES FOR OPERATING THE ferries hereinafter designated along with the wharf property belonging to the City, used or required for ferry purposes, situated on the East River, within The City of New York, as follows, will be offered for sale by the Board of Docks, at public auction, at the highest bidder, at Pier "A," Battery place, North river, on

FRIDAY, JULY 19, 1901, at 12 o'clock P. M., for a term of ten years from May 1, 1901, to wit:

1. The Fulton Ferry, to and from Fulton street in the Borough of Manhattan, to and from Fulton street in the Borough of Brooklyn, in The City of New York, comprising all that certain wharf property consisting of bulkheads, slips and adjacent Piers Nos. 21 and 22, now used and required for ferry purposes, at the foot of Fulton street, in the Borough of Manhattan, the surface of said slips, however, being reserved, excepting so far as the same may be required and is now occupied by fences or guards for protection behind the racks or piles in the slips, as shown on maps filed in the Department of Docks and Ferries; and also, all that certain wharf property consisting of bulkheads, slips and adjacent piers now used and required for ferry purposes, at the foot of Fulton street, in the Borough of Brooklyn.

2. The Wall Street Ferry, from and to Wall street, in the Borough of Manhattan, to and from Montague street, in the Borough of Brooklyn, in The City of New York, comprising all that certain wharf property belonging to The City of New York, consisting of one-half the bulkhead and slip and adjacent Pier No. 23, on the southerly side thereof, together with the surface, now used and required for ferry purposes, at the foot of Wall street, in the Borough of Manhattan. 3. The Catharine Ferry, from and to Catharine street, in the Borough of Manhattan, to and from Main street, in the Borough of Brooklyn, in The City of New York, comprising all that certain wharf property consisting of bulkheads, slips and adjacent Piers Nos. 24 and 25, except the surface, now used and required for ferry purposes, at the foot of Catharine street, in the Borough of Manhattan; and also, all that certain wharf property consisting of bulkheads, slips and half the adjacent pier on the westerly side of the slip, now used and required for ferry purposes, at the foot of Main street, in the Borough of Brooklyn.

4. The South Ferry, from and to Whitehall street, in the Borough of Manhattan, to and from Atlantic avenue, Borough of Brooklyn, in The City of New York, comprising all that certain wharf property consisting of bulkheads, slips and Pier No. 2, westerly side, excepting the surface, and short pier, southerly side, now used and required for ferry purposes, at the foot of Whitehall street, in the Borough of Manhattan; and also, all that certain wharf property, consisting of bulkheads, slips and adjacent piers, now used and required for ferry purposes at the foot of Atlantic avenue, Borough of Brooklyn.

5. The Hamilton Avenue Ferry, from and to Whitehall street, Borough of Manhattan, to and from Hamilton avenue, Borough of Brooklyn, in The City of New York, comprising all that certain wharf property consisting of bulkheads, slips and Pier No. 2, westerly side, excepting the surface, and short pier, southerly side, now used and required for ferry purposes, at the foot of Whitehall street, in the Borough of Manhattan, and all that certain wharf property consisting of bulkheads, slips and adjacent piers now used and required for ferry purposes at the foot of Hamilton avenue, Borough of Brooklyn.

TERMS AND CONDITIONS OF SALE. The leases will be sold subject to the approval of the terms thereof by the Commissioners of the Sinking Fund.

The franchise or the right to operate said ferries shall be sold all together under one bid, to the highest bidder, with a lease of the said wharf property belonging to the City, used and required for ferry purposes at the respective landings of said ferries, in the cities of New York and Brooklyn; the upset price at which same shall be offered for sale is hereby appraised and fixed at 5 1/2 per cent. of the gross receipts per annum. The highest bidder or purchaser of the lease other than the United Ferry Company of New York and Brooklyn, will be required to purchase and pay for the property of said company at the appraised valuation thereof, to wit: \$5,250,000. No bids will be received which shall be less than the upset price mentioned above.

The purchaser will be required at the time of sale to pay, in addition to the auctioneer's fee, to the Department of Docks and Ferries 25 per cent. of the amount of the annual rent bid as security for the execution of the lease, which 25 per cent. will be applied to the payment of the rent first accruing under the lease when executed, or will be forfeited to the Department if the purchaser refuses or neglects to execute the lease, with good and sufficient security, to be approved by the Board of Docks, within ten days after being notified that the lease is prepared and ready for execution at the office of the Department of Docks and Ferries, Pier "A," North river, foot of Battery place.

Two sufficient sureties, to be approved by the Board of Docks, will be required under said lease, to enter into a bond or obligation, jointly and severally with the lessees, in the sum of double the annual rent, for the faithful performance of all the covenants and conditions of the lease. Any person or corporation that may acquire said ferry franchises after the expiration of said term shall be required to purchase, at a fair appraised valuation, to be made in the same manner as prescribed in the existing lease of said ferries, the boats, buildings and other property of the former lessees or grantees actually necessary for the purpose of such ferries, provided that the Corporation of The City of New York shall not be deemed thereby to covenant to purchase said property in any event, but the obligation resting upon it shall be deemed to be fully satisfied and fulfilled by making such purchase by the grantee a condition of sale of said ferry franchises.

The leases shall be prepared and approved by the Corporation Council. The lease will contain the usual covenants and conditions, in conformity with the provisions of law and the ordinances of the Municipal Assembly relative to ferries, and shall provide that the lessees will maintain and operate said ferries during the whole term, and will provide ample accommodations in the way of safe

and spacious boats and efficiency of trips, as to the sufficiency of which accommodations the decision of the Board of Docks shall be final; also conditions that the lessees shall dredge the ferry slips, etc., as required by the Board of Docks; that during the term of the lease they will erect and build, at their own expense, and will at all times well and sufficiently repair, maintain and keep in good order all and singular the floats, racks, trestles, bridges and other fixtures of the landing places, and in the event of any damage to the bulkheads or piers from collision by the ferries, or otherwise, from any accident or negligence on their part, they will immediately repair and restore said wharf property to its previous condition free of cost to the City of New York; that if at any time during the term of the lease the Board of Docks shall require any of the wharf property used for ferry purposes to be improved with the water-front improvements in the vicinity of the ferry landings, the said lessees shall surrender and vacate the premises without any claim upon the City for any damages whatsoever, upon written notice being given to the lessees then on file in advance of the expiration of said lease; that such notice shall specify, by the general terms of description or by reference to the plans and specifications of the proposed work of improvement, the character of the alterations and improvements to be made in regard to said waterfront, affecting the property and rights hereby authorized to be demised, and upon receiving said notice the lessees may elect to terminate the lease of said ferry privileges or franchise by serving notice of such election upon the Board of Docks within one month after receiving the notice from the Board of Docks of its intention to improve the waterfront in the vicinity of the ferry landings, also that in case only a portion of said wharf property shall be required for the purposes aforesaid, then a reasonable reduction will be made from the rent reserved by said lease; that when returns of the amounts of ferry receipts shall be made to the Board of Docks, when required by said Board, and that the books of accounts of the ferry shall be subject to the inspection of said Board.

The rates of ferriage and charges for vehicles and freight shall not exceed the rates now charged. The form of lease which the purchaser will be required to execute can be seen at the office of the Board of Docks.

The right to reject any bid is reserved if deemed by the Board of Docks to be for the best interests of the City.

By order of the Board of Docks, under a resolution adopted July 1, 1901.

J. SERGEANT CRAM,  
CHARLES F. MURPHY,  
PETER F. MEYER,  
Commissioners of Docks.

THREATENED BY DUCKS AND FISHES.  
FISH "A," BAYVIEW BEACH, NORTH RIVER,  
NEW YORK CITY.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Board of Docks, at the office of said Board, on Box "A," foot of Battery place, North River, in the City of New York, until 1 o'clock p. m., on

FRIDAY, JULY 19, 1901.

at which time and place the estimates will be publicly opened by the head of said Board:

No. 711 FOR FURNISHING AND DELIVERING MANILA ROPE.

The said rope to be delivered within four months from receipt of notice from Engineer-in-Chief. The security required will be Three Thousand Five Hundred Dollars.

No. 712 FOR FURNISHING AND DELIVERING SAWED YELLOW PINE TIMBER.

Deliveries under contract to be completed within six months from receipt of notice from Engineer-in-Chief. The security required will be Twenty-three Thousand Seven Hundred Dollars.

No. 713 FOR PREPARING FOR AND EXTENDING AND REPAIRING THE PIER WITH APPURTEANCES AT THE FOOT OF WEST THIRTIETH STREET, NORTH RIVER, BOROUGH OF MANHATTAN.

The said work to be completed within ninety days. The security required will be Fourteen Thousand Dollars.

The person or persons making a bid or estimate shall furnish the same in a sealed envelope, indorsed with the title given above of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the 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 each of the persons 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; 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 Municipal Assembly, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work 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.

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 form of bid mentioned below.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller of the City of New York, or money to the amount of five per centum of the amount of the security required, as provided in section 490 of the Greater New York Charter.

For particulars as to the quantity and quality of the materials, or the nature and extent of the work required, bidders are referred to the specifications.

Tax Board reserves the right to reject all bids or estimates if deemed to be for the interests of the City so to do.

Bidders are requested to make their bids or estimates upon the blank form prepared by the 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 therefor at the office of the Board.

Dated July 9, 1901.

J. SERGEANT CRAM,  
CHARLES F. MURPHY,  
PETER F. MEYER,  
Commissioners composing the Board of Docks.

THE CITY RECORD.

THE CITY RECORD IS PUBLISHED DAILY, Sundays and legal holidays excepted, at No. 2 City Hall, New York City. Annual subscription, \$4.50, postage prepaid.

WILLIAM A. BUTLER,  
Supervisor.

CHANGE OF GRADE DAMAGE COMMISSION, TWENTY-THIRD AND TWENTY-FOURTH WARDS.

PURSUANT TO THE PROVISIONS OF CHAPTER 517 of the Laws of 1899, entitled "An act providing for ascertaining and paying the amount of damages to lands and buildings suffered by reason of changes of grade of streets or avenues, made pursuant to chapter 701 of the Laws of 1887, providing for the 'depression of railroad tracks in the Twenty-third and Twenty-fourth Wards, in the City of New York, or otherwise,' and the acts amendatory thereof and supplemental thereto, notice is hereby given that public meetings of the Commissioners appointed pursuant to said acts will be held at Room 56, Schermerhorn Building, No. 95 Broadway, in the City of New York, on Monday, Wednesday and Friday of each week, at 2 o'clock p. m., until further notice.

Dated New York, January 2, 1900.  
WILLIAM E. STILLINGS,  
CHARLES A. JACKSON,  
OSCAR S. BAILEY,  
Commissioners.  
LAMONT MCGLOTHLIN,  
Clerk.

DEPARTMENT OF FINANCE.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 1208 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 MANHATTAN:

TWELFTH WARD, SECTION 6.

EAST ONE HUNDRED AND SEVENTH STREET—ENCING, to front of Street Nos. 216 and 218. Area of assessment: Lots numbered 41 and 42 of Block No. 352.

PARK AVENUE—ENCING, east side, from a point 45 feet south of One Hundred and Eighteenth street, thence running 75 feet south. Area of assessment: Lots numbered 4, 7, and 9 of Block No. 1045.

TWELFTH WARD, SECTION 7.

BROADWAY—SEWER, west side, between One Hundred and Fifteenth street and the street situated north of One Hundred and Sixteenth street. Area of assessment: West side of Broadway, between One Hundred and Fifteenth street and a point situated about 35 1/2 feet north of One Hundred and Sixteenth street.

BROADWAY—SEWER, west side, between One Hundred and Nineteenth street and the street situated southerly therefrom. Area of assessment: West side of Broadway, between One Hundred and Nineteenth street and a point situated about 350 feet southerly therefrom.

LENOX AVENUE—FLAGGING, east side, between One Hundred and Thirty-ninth and One Hundred and Fortieth streets. Area of assessment: East side of Lenox avenue, between One Hundred and Thirty-ninth and One Hundred and Fortieth streets.

WEST ONE HUNDRED AND THIRTY-THIRD STREET—FLAGGING, north side, opposite Old Broadway, and in front of lots numbered 1 and 7 to 11, both inclusive, of Block 1087. Area of assessment: Lots numbered 1 and 7 to 11, both inclusive, of Block 1087.

TWELFTH WARD, SECTION 8.

BROADWAY—FLAGGING, east side, between One Hundred and Sixteenth and One Hundred and Sixty-first streets. Area of assessment: East side of Broadway, between One Hundred and Sixteenth and One Hundred and Sixty-first streets.

ONE HUNDRED AND SEVENTY-EIGHTH STREET—REGULATING, GRADING, CURBING AND FLAGGING, between Amsterdam avenue and Kingsbridge road. Area of assessment: Both sides of One Hundred and Seventy-eighth street, between Amsterdam avenue and Broadway, and to the extent of one-half the blocks on the intersecting avenue and the remaining street and avenue.

That the same were confirmed by the Board of Assessors on July 16, 1901, and entered on the same date in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 25, No. 95 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 1208 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, SECTIONS 11 AND 12.

EAST ONE HUNDRED AND NINETIETH STREET—SEWER, from Grand avenue to Davidson avenue; also SEWER IN DAVIDSON AVENUE, from Fordham road to East One Hundred and Ninety-second street. Area of assessment: Both sides of One Hundred and Ninetieth street, from Grand avenue to Morris avenue; both sides of One Hundred and Ninety-second street, from Grand avenue to Creston avenue; both sides of Kingsbridge road, from Grand avenue to the Grand Boulevard and Concourse; both sides of One Hundred and Ninety-sixth street, from Jerome avenue to the Concourse; north side of Fordham road, from Grand avenue to Davidson avenue; west side of the Concourse, from Kingsbridge road to One Hundred and Ninety-sixth street; both sides of Creston avenue, from Kingsbridge road to One Hundred and Ninety-sixth street; both sides of Morris avenue, from One Hundred and Ninetieth street north to Parkview terrace; both sides of Jerome avenue, from One Hundred and Ninetieth street to One Hundred and Ninety-sixth street; both sides of Parkview terrace, from One Hundred and Ninety-sixth to One Hundred and Ninety-eighth street; both sides of Davidson avenue, from Fordham road to Kingsbridge road.

That the same were confirmed by the Board of Assessors on July 16, 1901, and entered on same date in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 25, No. 95 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 1208 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, SECTIONS 11 AND 12.

EAST ONE HUNDRED AND NINETIETH STREET—SEWER, from Grand avenue to Davidson avenue; also SEWER IN DAVIDSON AVENUE, from Fordham road to East One Hundred and Ninety-second street. Area of assessment: Both sides of One Hundred and Ninetieth street, from Grand avenue to Morris avenue; both sides of One Hundred and Ninety-second street, from Grand avenue to Creston avenue; both sides of Kingsbridge road, from Grand avenue to the Grand Boulevard and Concourse; both sides of One Hundred and Ninety-sixth street, from Jerome avenue to the Concourse; north side of Fordham road, from Grand avenue to Davidson avenue; west side of the Concourse, from Kingsbridge road to One Hundred and Ninety-sixth street; both sides of Creston avenue, from Kingsbridge road to One Hundred and Ninety-sixth street; both sides of Morris avenue, from One Hundred and Ninetieth street north to Parkview terrace; both sides of Jerome avenue, from One Hundred and Ninetieth street to One Hundred and Ninety-sixth street; both sides of Parkview terrace, from One Hundred and Ninety-sixth to One Hundred and Ninety-eighth street; both sides of Davidson avenue, from Fordham road to Kingsbridge road.

That the same were confirmed by the Board of Assessors on July 16, 1901, and entered on same date in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 25, No. 95 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 1208 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:

TWELFTH WARD.

SULLIVAN STREET—SEWER, between Conover street and Ferris street; also, OUTLET SEWER IN SULLIVAN STREET, between Ferris street and East river. Area of assessment: Both sides of Sullivan street, between Conover street and the East river; also both sides of Ferris street, between Sullivan street and Walnut street.

EIGHTEENTH WARD.  
ORIENT AVENUE—BASIN, on the northwest corner of Orlin street. Area of assessment: North side of Orlin and Metropolitan avenues, between Bushwick avenue and Olive street.

TWENTY-SECOND WARD.  
FIFTH AVENUE—GRADING LOTS, on the southwest corner of Carroll street. Area of assessment: Lots numbered 5 to 10, both inclusive, of Block No. 32.

TWENTY-THIRD WARD.  
BEDFORD AVENUE—BASIN, on the southwest corner of Brewster place. Area of assessment: Lots numbered 27, 29 and 31 of Block No. 85.

TWENTY-SIXTH WARD.  
SCHENCK AVENUE—BASINS, on all the corners of Schenck avenue, between New Lots avenue and the street situated north of Livonia avenue; both sides of Livonia avenue, and the north side of New Lots avenue, between Schenck avenue and Hendrix street, and the east side of Hendrix street, between Livonia and New Lots avenues.

SCHENCK AVENUE—BASINS, on the southwest corner of Pitkin avenue, and on all the corners of Dumont avenue. Area of assessment: Both sides of Schenck avenue, between Blaine avenue and the street situated south of Dumont avenue; south side of Blaine avenue, between Schenck avenue and Barbey street; both sides of Dumont avenue, from Schenck avenue to the street situated north of Dumont street and west therefrom; south side of Pitkin avenue, between Schenck avenue and Hendrix street; also Lot No. 11 of Block No. 305.

TWENTY-NINTH WARD.  
AVRUE D—BASINS, at the northeast and northwest corners of East Eighth street; also on the northwest corner of Coney Island avenue. Area of assessment: Both sides of East Eighth street and the west side of Coney Island avenue, between Avenues D and E; also north side of Avenue D and south side of Avenue C, between East Seventh and East Eighth streets, and between East Ninth street and Coney Island avenue.

OCEAN AVENUE—BASIN, at the northwest corner of St. Paul's court. Area of assessment: North side of St. Paul's court, between St. Paul's place and Ocean avenue; west side of Ocean avenue, between St. Paul's court and Conroy avenue; and south side of Conroy avenue, between Ocean avenue and the street situated westerly therefrom.

THIRTIETH WARD.  
BAY FOURTEENTH STREET—BASIN, at the southern corner of Bath avenue. Area of assessment: Lot No. 3 of Block No. 318.

EIGHTY-SIXTH STREET—SEWER, between Fourth avenue and Fort Hamilton avenue. Area of assessment: Both sides of Eighty-sixth street, from Fourth avenue to Fort Hamilton avenue; south side of Fourth avenue, from Eighty-sixth to Eighty-seventh street; both sides of Fifth avenue, from Eighty-sixth to Eighty-eighth street; both sides of Gekron avenue, from Eighty-sixth street to a point distant about 200 feet west.

That the same were confirmed by the Board of Assessors on July 16, 1901, and entered on same date in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 25, No. 95 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1208 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 in the following-named street in the BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 9.  
EAST ONE HUNDRED AND SIXTY-FOURTH STREET—OPENING, from Summit avenue to Anderson avenue. Confirmed June 9, 1901, entered July 12, 1901. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the prolongation westerly of the middle line of the blocks between One Hundred and Sixty-fourth street and East One Hundred and Sixty-fifth street with the middle line of the block between Lind avenue and Summit avenue; thence easterly along said prolongation and middle line of the blocks between East One Hundred and Sixty-fourth street and East One Hundred and Sixty-fifth street and said middle line produced easterly to its intersection with the middle line of the block between Jerome avenue and Anderson avenue; thence southerly along said middle line of the block between Jerome avenue and Anderson avenue to its intersection with the prolongation easterly of the middle line of the blocks between East One Hundred and Sixty-second street and East One Hundred and Sixty-fourth street; thence westerly along said prolongation and middle line of the block between East One Hundred and Sixty-second street and East One Hundred and Sixty-fourth street to the westerly side of Woodcrest avenue (Bremer avenue); thence across Woodcrest avenue (Bremer avenue) and along the northerly side of East One Hundred and Sixty-third street to the easterly side of Ogden avenue; thence across Ogden avenue to its intersection with the middle line of the block between East One Hundred and Sixty-second street and East One Hundred and Sixty-fourth street; thence westerly along said middle line of the block and said middle line produced westerly to its intersection with the middle line of the block between Lind avenue and Summit avenue; thence northerly along said middle line of the block between Lind avenue and Summit avenue to the point or place of beginning, as such streets are shown upon the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of The City of New York.

The above-entitled assessment was entered on the date hereinabove given, in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessment provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

SAID SECTION PROVIDES THAT "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

IN PURSUANCE OF SECTION 1208 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:

SECOND WARD.  
MAIN STREET—FLAGGING, west side, between Front and York streets; also, FRONT STREET FLAGGING, south side, between Main and Garrison streets. Area of assessment: Lot No. 1 of Block No. 45.

EIGHTH WARD.  
FIFTY-FOURTH STREET—FLAGGING, north side, between Fourth and Fifth avenues; also, FIFTH AVENUE FLAGGING, west side, between Fifty-third and Fifty-fourth streets; also, FIFTY-THIRD STREET FLAGGING, south side, between Fourth and Fifth avenues. Area of assessment: Lots numbered 48, 49 to 51, both inclusive; 63 and 64 of Block No. 474.

TWENTY-THIRD WARD.  
FULTON STREET—FLAGGING, south side, between Troy and Schenectady avenues. Area of assessment: Lot No. 3 of Block No. 127.

TWENTY-FOURTH WARD.  
DEAN STREET—FLAGGING, north side, between Buffalo and Ralph avenues. Area of assessment: Lots numbered 53, 54, 56, 57, 58 and 59 of Block No. 265.

TWENTY-FIFTH WARD.  
MCDONOUGH STREET—FLAGGING, south side, between Saratoga and Hopkinson avenues. Area of assessment: Lots numbered 79 and 80 of Block No. 92.

TWENTY-SEVENTH WARD.  
DE KALB AVENUE—FLAGGING, southeast side, between Central and Hamburg avenues. Area of assessment: Lots numbered 28 and 31 of Block No. 67.

TWENTY-EIGHTH WARD.  
BUSHWICK AVENUE—FLAGGING, southwest side, between Schaeffer street and Decatur street. Area of assessment: Lot No. 26 of Block No. 130.

THIRTIETH WARD.  
FIFTH AVENUE—SEWER, between Seventy-ninth and Eighty-sixth streets; also, EIGHTY-FOURTH STREET SEWER, between Fifth avenue and Fort Hamilton avenue; also, EIGHTY-FIFTH STREET SEWER, between Fifth avenue and Fort Hamilton avenue. Area of assessment: Both sides of Fifth avenue, from Seventy-ninth to Eighty-sixth street; both sides of Fort Hamilton avenue, from Eighty-fourth to Eighty-sixth street; west side of Sixth avenue, from Eighty-fourth to Eighty-sixth street; north side of Eighty-sixth street, from Fort Hamilton avenue to Fifth avenue; both sides of Eighty-fifth street, from Fort Hamilton avenue to a point distant about 200 feet west of Fifth avenue; both sides of Eighty-fourth street, from Fifth avenue to a point distant about 200 feet west of Fifth avenue; both sides of Eighty-third, Eighty-second, Eighty-first and Eightieth streets, from Fourth to Sixth avenue; south side of Seventy-ninth street, from Fifth to Sixth avenue; east side of Fourth avenue, from Eightieth to Eighty-third street.

That the same were confirmed by the Board of Assessors on July 9, 1901, and entered on same date in the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, Room No. 25, No. 95 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 September 14, 1901, 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 cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER,  
Comptroller.  
CITY OF NEW YORK—DEPARTMENT OF FINANCE,  
COMPTROLLER'S OFFICE, July 17, 1901.

IN PURSUANCE OF SECTION 1208 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-THIRD WARD, SECTION 9.  
EAST ONE HUNDRED AND SIXTY-FOURTH STREET—OPENING, from Summit avenue to Anderson avenue. Confirmed June 9, 1901, entered July 12, 1901. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the prolongation westerly of the middle line of the blocks between One Hundred and Sixty-fourth street and East One Hundred and Sixty-fifth street with the middle line of the block between Lind avenue and Summit avenue; thence easterly along said prolongation and middle line of the blocks between East One Hundred and Sixty-fourth street and East One Hundred and Sixty-fifth street and said middle line produced easterly to its intersection with the middle line of the block between Jerome avenue and Anderson avenue; thence southerly along said middle line of the block between Jerome avenue and Anderson avenue to its intersection with the prolongation easterly of the middle line of the blocks between East One Hundred and Sixty-second street and East One Hundred and Sixty-fourth street; thence westerly along said prolongation and middle line of the block between East One Hundred and Sixty-second street and East One Hundred and Sixty-fourth street to the westerly side of Woodcrest avenue (Bremer avenue); thence across Woodcrest avenue (Bremer avenue) and along the northerly side of East One Hundred and Sixty-third street to the easterly side of Ogden avenue; thence across Ogden avenue to

In the Record of Titles of Assessments Confirmed, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and within 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 1065 of the Greater New York Charter. Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said record of titles of assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per cent, per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Arrears at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, 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 September 7, 1901, 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 cent, per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER, Comptroller, City of New York—DEPARTMENT OF FINANCE, CONTROLLER'S OFFICE, July 19, 1901.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1065 OF THE "Greater New York Charter," the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessment for OPENING AND ACQUIRING TITLE to the following named street and avenues in the BOROUGH OF THE BRONX:

**TWENTY-THIRD WARD, SECTION 10.**  
**TRINITY AVENUE—OPENING.** From Dater street to Westchester avenue. Confirmed June 24, 1901; entered July 8, 1901. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of the Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of a line drawn parallel to the southerly side of East One Hundred and Forty-sixth street and distant 100 feet southerly therefrom with the southerly prolongation of the middle line of the block between Eagle avenue and St. Ann's avenue; running thence southerly along said southerly prolongation and middle line of the block to its intersection with a line drawn parallel to East One Hundred and Fifty-sixth street, through a point in the middle line of the block between Cauldwell avenue and Eagle avenue, equidistant from East One Hundred and Fifty-sixth street on the north and Westchester avenue on the south; thence easterly along said line drawn parallel to East One Hundred and Fifty-sixth street to the middle line of the block between Cauldwell avenue and Eagle avenue; thence northerly along said middle line of the block to the southerly side of East One Hundred and Sixty-first street (formerly Clinton street); thence easterly along said southerly side of East One Hundred and Sixty-first street (formerly Clinton street) to the middle line of the block between Jackson avenue and Forest avenue; thence southerly along said middle line of the block and said middle line prolonged southerlywardly to its intersection with the middle line of the block between Concord avenue and Robbins avenue; thence southerly along said middle line of the block, between Concord avenue and Robbins avenue, to the southerly side of the Port Morris Branch of the New York and Harlem Railroad; thence northerly, southerly and again northerly along said southerly side and westerly side of said Port Morris Branch of the New York and Harlem Railroad to its intersection with a line drawn parallel to the southerly side of East One Hundred and Forty-ninth street and distant 100 feet southerly therefrom; thence westerly along said parallel line to the point or place of beginning.

**TWENTY-THIRD AND TWENTY-FOURTH WARDS, SECTION 11.**  
**MARCY PLACE—OPENING.** From Jerome avenue to the Concourse. Confirmed June 24, 1901; entered July 8, 1901. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of the Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the northwesterly prolongation of the northerly side of Clarke place with a line drawn parallel to the northwesterly side of Jerome avenue and distant 100 feet northwesterly therefrom, running thence northwesterly along said parallel line to its intersection with the northwesterly prolongation of the southwesterly side of Elliott place; thence southeasterly along said northwesterly prolongation and southwesterly side of Elliott place and its southeasterly prolongation to its intersection with a line drawn parallel to and distant 100 feet southeasterly from the southeasterly side of the Grand Boulevard and Concourse; thence southwesterly along said parallel line to its intersection with the southeasterly prolongation of the northwesterly side of Clarke place; thence northwesterly along said southeasterly prolongation and northwesterly side of Clarke place, and the first-mentioned northwesterly prolongation to the point or place of beginning.

**TWENTY-THIRD AND TWENTY-FOURTH WARDS, SECTIONS 9 AND 11.**

**OGDEN AVENUE—OPENING.** From Jerome avenue to Washington bridge. Confirmed June 24, 1901; entered July 8, 1901. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of the Bronx, in the City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the prolongation easterly of the southerly side of East One Hundred and Seventy-sixth street with the westerly side of Macomb's road; thence southerly along the westerly side of Macomb's road to its intersection with a line drawn parallel to Nelson avenue and distant 100 feet southeasterly from the southeasterly side thereof; thence southwesterly along said line drawn parallel to Nelson avenue and distant 100 feet southeasterly from the southeasterly side thereof to its intersection with the middle line of the blocks between East One Hundred and Sixty-fourth street and East One Hundred and Sixty-fifth street, thence easterly along said middle line of the blocks to its intersection with the middle line of the blocks between Heuser avenue (Woodycrest avenue) and Anderson avenue; thence southwesterly along the middle line of the blocks between Bremer avenue (Woodycrest avenue) and Anderson avenue; and said middle line produced southwesterly to its intersection with a line drawn parallel to Jerome avenue, and distant 100 feet southeasterly from the southeasterly side thereof; thence southwesterly along said line to its intersection with the prolongation southeasterly of a line drawn parallel to Sedgwick avenue and distant 100 feet southwesterly from the southwesterly side thereof; thence northwesterly along said prolongation and said line drawn parallel to the southwesterly side of Sedgwick avenue and distant 100 feet southwesterly therefrom to its intersection with the prolongation southerly of the old easterly side of Sedgwick avenue; thence northerly along said prolongation and said easterly side of Sedgwick avenue to its intersection with the easterly side of Lind avenue; thence northerly along the easterly side of Lind avenue to a point to said easterly side distant about 150

feet southerly from the southerly side of East One Hundred and Sixty-sixth street; thence westerly across Lind avenue to its intersection with the prolongation southerly of that part of the easterly side of Lind avenue lying between East One Hundred and Sixty-sixth street and East One Hundred and Seventy-sixth street; thence northerly along said prolongation and easterly side of Lind avenue lying between East One Hundred and Sixty-ninth street and East One Hundred and Seventy-sixth street and continuing along the easterly side of Aqueduct avenue to its intersection with the prolongation easterly of the northerly side of an unknown street opposite the intersection of Aqueduct and Merriman avenues; thence westerly along said prolongation and northerly side of unknown street to its intersection with the easterly side of Underhill avenue; thence southerly along the easterly side of Underhill avenue to the northerly line of the land acquired for the Washington Bridge; thence westerly along the northerly line of the land acquired for the Washington Bridge to its intersection with a line drawn parallel to Underhill avenue and distant 100 feet westerly from the westerly side thereof; thence northerly along said parallel line to its intersection with the southerly side of East One Hundred and Seventy-sixth street; thence easterly along the southerly side of East One Hundred and Seventy-sixth street to the point or place of beginning, as such streets are shown upon the Final Maps and Profiles of the Twenty-third and Twenty-fourth Wards of the City of New York.

The above-entitled assessments were entered on the dates hereinabove given in the Record of Titles of Assessments Confirmed, 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 1065 of the "Greater New York Charter." Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

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 Crossin Park Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of the Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before September 6, 1901, 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 cent, per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

BIRD S. COLER, Comptroller, City of New York—DEPARTMENT OF FINANCE, CONTROLLER'S OFFICE, July 9, 1901.

PETER F. MEYER, AUCTIONEER.

CORPORATION SALE OF REAL ESTATE.

**PUBLIC NOTICE IS HEREBY GIVEN THAT** the Commissioners of the Sinking Fund of the City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction, on

**WEDNESDAY, JULY 31, 1901,** at 12 o'clock m., at the Comptroller's office, No. 280 Broadway, Borough of Manhattan, City of New York, all the right, title and interest of the City of New York in and to certain premises situated in the Borough of Brooklyn, and described as follows:

All that certain piece or parcel of land, situate, lying and being in the Twenty-sixth Ward of the Borough of Brooklyn, being so much of the old Hunterly road as falls within the lines of lot known and designated on the assessment map of said ward as Lot No. 7, in Block 107, and which parcel is more particularly described as follows: Beginning at a point on the westerly side of Thurford avenue, distant 130 feet southerly from the southwesterly corner of Kingsdale avenue and Thurford avenue, and running thence westerly parallel with said Kingsdale avenue 41 feet, 2 1/2 inches to the westerly line of the old Hunterly road; thence southerly along the westerly line of said old road to its point of intersection with the westerly line of Thurford avenue; and thence northerly along the said westerly line of Thurford avenue to the point or place of beginning, be the said several dimensions more or less.

The City's interest in said premises to be sold upon the following

**TERMS AND CONDITIONS OF SALE.**  
The highest bidder for said parcel will be required to pay the full amount of his bid or purchase money and the auctioneer's fee at the time of sale, together with the further sum of \$75 for expenses of examination, advertising, etc.  
The quit-claim deed for the premises to be delivered within thirty days from the date of sale.  
The Comptroller may, at his option, resell the property struck off to the highest bidder who shall fail to comply with the terms of sale, and the party who fails to comply therewith will be held liable for any deficiency resulting from such resale.  
The right to reject any bid is reserved.  
The map of the property to be sold may be seen upon application at the Comptroller's office, Room 55, No. 280 Broadway, Borough of Manhattan, City of New York.

By order of the Commissioners of the Sinking Fund, under resolution adopted June 14, 1901.  
BIRD S. COLER, Comptroller, City of New York—DEPARTMENT OF FINANCE, CONTROLLER'S OFFICE, July 24, 1901.

PETER F. MEYER, AUCTIONEER.

CORPORATION SALE OF REAL ESTATE.

**PUBLIC NOTICE IS HEREBY GIVEN THAT** the Commissioners of the Sinking Fund of the City of New York, by virtue of the powers vested in them by law, will offer for sale at public auction, on

**WEDNESDAY, JULY 31, 1901,** at 12 o'clock m., at the Comptroller's office, No. 280 Broadway, Borough of Manhattan, City of New York, all the right, title and interest of the City of New York in and to certain premises situated in the Borough of Brooklyn, and described as follows:

All that certain piece or parcel of land situate, lying and being in the Eighth Ward of the Borough of Brooklyn, being so much of the old Gowanus road as falls within the lines of lot known and designated on the assessment map of said ward as lots Nos. 5107, inclusive, and 52 to 36, inclusive, in Block 16, and which lots are more particularly described as follows: Beginning at the westerly corner of Third avenue and Twenty-sixth street, and running thence northwesterly along the southwesterly side of Twenty-sixth street 80 feet; thence southwesterly and parallel with Third avenue 200 feet 4 inches to Twenty-seventh street; thence southwesterly along the northwesterly side of Twenty-seventh street 80 feet to the northerly corner of Third avenue and Twenty-seventh street, and thence northwesterly along the northwesterly side of Third avenue 200 feet 4 inches to the point or place of beginning.

The City's interest in said premises to be sold upon the following

**TERMS AND CONDITIONS OF SALE.**

The highest bidder for said parcel will be required to pay the full amount of his bid or purchase money and the auctioneer's fee at the time of sale, together with the further sum of \$75 for expenses of examination, advertising, etc.

The quit-claim deed for the premises to be delivered within thirty days from the date of sale.

The Comptroller may, at his option, resell the property struck off to the highest bidder who shall fail to comply with the terms of sale, and the party who fails to comply therewith will be held liable for any deficiency resulting from such resale.

The right to reject any bid is reserved.

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By order of the Commissioners of the Sinking Fund, under resolution adopted June 14, 1901.  
BIRD S. COLER, Comptroller, City of New York—DEPARTMENT OF FINANCE, CONTROLLER'S OFFICE, July 24, 1901.

**DEPARTMENT OF HIGHWAYS.**

**DEPARTMENT OF HIGHWAYS,** COMMISSIONER'S OFFICE, NO. 22 TO 24 PARK ROW, New York, July 19, 1901.

**TO CONTRACTORS.**

**BIDS OR ESTIMATES, ENCLOSED IN A** sealed envelope, with the title of the work, and the name of the bidder indicated thereon, also the number of the work in the advertisement, will be received at No. 22 Park Row, in Room No. 2001, until 11 o'clock on

**TUESDAY, JULY 30, 1901,**

at which time and place the bids or estimates received will be publicly opened by the head of the Department.

On all the following contracts, as enumerated below, the attention of bidders is particularly called to the requirements of the specifications whereby they are obliged to deposit suitable samples of all materials to be used with the Commissioner of Highways four (4) full days (holidays and Sundays excluded) before the day of opening bids as stated in this advertisement. Such samples and materials when deposited must be properly marked, be accompanied by proper certificates, etc., all in strict conformity with the requirements of the specifications.

**Borough of Manhattan.**

**No. 1. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF SIXTH AVENUE, FROM THIRTY-FIFTH TO FORTY-SECOND STREET.**  
The quantity and quality of work to be done is as follows:

- 9,100 square yards of asphalt pavement, including binder course.
- 4,150 square yards of old stone pavement to be relaid as foundation or in approaches.
- 2,775 linear feet of new curbstone furnished and set.
- 100 linear feet of old curbstone redressed, re-joined and reset.
- 3 noiseless covers complete for water manholes furnished and set.
- 2 noiseless covers complete for sewer manholes furnished and set.

The security required will be Thirteen Thousand Dollars.

The time allowed for the completion of the whole work will be fifty consecutive working days.

**No. 2. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF SIXTH AVENUE, FROM FORTY-SECOND TO FIFTY-NINTH STREET.**  
The quantity and quality of work to be done is as follows:

- 23,000 square yards of asphalt pavement, including binder course.
- 4,420 linear feet of new curbstone furnished and set.
- 1,720 linear feet of old curbstone redressed, re-joined and reset.
- 23 noiseless covers complete for water manholes furnished and set.
- 20 noiseless covers complete for sewer manholes furnished and set.

The security required will be Thirty-five Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

**No. 3. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF SEVENTH AVENUE, FROM TWENTY-THIRD TO FORTY-SECOND STREET.**  
The quantity and quality of work to be done is as follows:

- 32,800 square yards of asphalt pavement, including binder course.
- 99,900 square yards of old stone pavement to be relaid as foundation or in approaches.
- 520 cubic yards of concrete.
- 500 linear feet of new curbstone furnished and set.
- 500 linear feet of old curbstone redressed, re-joined and reset.
- 50 noiseless covers complete for water manholes furnished and set.
- 60 noiseless covers complete for sewer manholes furnished and set.

The security required will be Fifty Thousand Dollars.

The time allowed for the completion of the whole work will be one hundred consecutive working days.

**No. 4. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF SEVENTH AVENUE, FROM FORTY-SEVENTH TO FIFTY-EIGHTH STREET.**  
The quantity and quality of work to be done is as follows:

- 18,250 square yards of asphalt pavement, including binder course.
- 15,000 square yards of old stone pavement to be relaid as foundation or in approaches.
- 370 cubic yards of concrete.
- 700 linear feet of new curbstone furnished and set.
- 300 linear feet of old curbstone redressed, re-joined and reset.
- 30 noiseless covers complete for water manholes furnished and set.
- 27 noiseless covers complete for sewer manholes furnished and set.

The security required will be Twenty-five Thousand Dollars.

The time allowed for the completion of the whole work will be seventy consecutive working days.

**No. 5. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF PARK AVENUE, FROM ONE HUNDRED AND TWENTY-FOURTH STREET TO ONE HUNDRED AND TWENTY-SIXTH STREET.**  
The quantity and quality of work to be done is as follows:

- 4,300 square yards of asphalt pavement, including binder course.
- 34,500 square yards of old stone pavement to be relaid as foundation or in approaches.
- 680 linear feet of new curbstone furnished and set.
- 160 linear feet of old curbstone redressed, re-joined and reset.

3 noiseless covers complete for water manholes furnished and set.

1 noiseless covers complete for sewer manholes furnished and set.

The security required will be Four Thousand Dollars.

The time allowed for the completion of the whole work will be twenty-five consecutive working days.

**No. 6. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF FIFTY-EIGHTH STREET, FROM SEVENTH PLACE TO EAST RIVER.**  
The quantity and quality of work to be done is as follows:

- 680 square yards of asphalt pavement, including binder course.
- 965 square yards of old stone pavement to be relaid as foundation or in approaches.
- 340 linear feet of new curbstone furnished and set.
- 50 linear feet of old curbstone redressed, re-joined and reset.
- 3 noiseless covers complete for water manholes furnished and set.
- 2 noiseless covers complete for sewer manholes furnished and set.

The security required will be Eight Thousand Dollars.

The time allowed for the completion of the whole work will be fifteen consecutive working days.

**No. 7. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF TWENTY-EIGHTH STREET, FROM NINTH AVENUE TO TENTH AVENUE.**  
The quantity and quality of work to be done is as follows:

- 2,750 square yards of asphalt pavement, including binder course.
- 2,120 square yards of old stone pavement to be relaid as foundation or in approaches.
- 23 cubic yards of concrete.
- 5,940 linear feet of new curbstone furnished and set.
- 20 linear feet of old curbstone redressed, re-joined and reset.
- 3 noiseless covers complete for water manholes furnished and set.
- 8 noiseless covers complete for sewer manholes furnished and set.

The security required will be Four Thousand Dollars.

The time allowed for the completion of the whole work will be twenty-five consecutive working days.

**No. 8. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF ONE HUNDRED AND THIRTIETH STREET, FROM LEXINGTON AVENUE TO FIFTH AVENUE.**  
The quantity and quality of work to be done is as follows:

- 4,320 square yards of asphalt pavement, including binder course.
- 4,320 square yards of old stone pavement to be relaid as foundation or in approaches.
- 2,300 linear feet of new curbstone furnished and set.
- 160 linear feet of old curbstone redressed, re-joined and reset.
- 5 noiseless covers complete for water manholes furnished and set.
- 12 noiseless covers complete for sewer manholes furnished and set.

The security required will be Six Thousand Dollars.

The time allowed for the completion of the whole work will be thirty consecutive working days.

**No. 9. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF THIRTY-THIRD STREET, FROM A POINT ABOUT 120 FEET WEST OF THE WEST HOUSE-LINE OF FIRST AVENUE TO A POINT ABOUT 300 FEET EAST OF THE EAST HOUSE-LINE OF FIRST AVENUE, BEING THE PORTION OF THE ROADWAY OF EAST THIRTY-THIRD STREET WITHIN THE LIMITS OF GROUNDS OF LAND UNDER WATER.**  
The quantity and quality of work to be done is as follows:

- 1,220 square yards of asphalt pavement, including binder course.
- 1,220 square yards of old stone pavement to be relaid in approaches and in approaches.
- 725 linear feet of new curbstone furnished and set.
- 33 linear feet of old curbstone redressed, re-joined and reset.

The security required will be One Thousand Five Hundred Dollars.

The time allowed for the completion of the whole work will be fifteen consecutive working days.

**No. 10. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF ONE HUNDRED AND THIRTY-THIRD STREET, FROM FIFTH TO LENOX AVENUE.**  
The quantity and quality of work to be done is as follows:

- 3,175 square yards of asphalt pavement, including binder course.
- 3,175 square yards of old stone pavement to be relaid as foundation or in approaches.
- 1,705 linear feet of new curbstone furnished and set.
- 100 linear feet of old curbstone redressed, re-joined and reset.
- 2 noiseless covers complete for water manholes furnished and set.
- 10 noiseless covers complete for sewer manholes furnished and set.

The security required will be Four Thousand Dollars.

The time allowed for the completion of the whole work will be twenty consecutive working days.

**No. 11. PAVING WITH ASPHALT PAVEMENT ON CONCRETE FOUNDATION OF THE ROADWAY OF HAMILTON TERRACE, FROM ONE HUNDRED AND FORTY-FIRST STREET TO ONE HUNDRED AND FORTY-FOURTH STREET.**  
The quantity and quality of work to be done is as follows:

- 2,475 square yards of asphalt pavement, including binder course.
- 105 cubic yards of concrete.
- 750 linear feet of new curbstone furnished and set.
- 1,000 linear feet of old curbstone redressed, re-joined and reset.

The security required will be Three Thousand Dollars.

The time allowed for the completion of the whole work will be twenty-five consecutive working days.

**Borough of Brooklyn.**

**No. 12. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELAID AS FOUNDATION OF THE ROADWAY OF CLASSON AVENUE, FROM ST. MARK'S AVENUE TO EASTERN PARKWAY.**  
The quantity and quality of work to be done is as follows:

- 7,050 square yards of asphalt pavement, including binder course.
- 7,050 square yards of old stone pavement to be relaid as foundation or in approaches.
- 2,970 linear feet of new curbstone furnished and set.
- 700 linear feet of old curbstone redressed, re-joined and reset.

The security required will be Eight Thousand Dollars.

The time allowed for the completion of the whole work will be forty-five consecutive working days.

**No. 13. REPAVING WITH ASPHALT PAVEMENT ON CONCRETE FOUNDATION OF THE ROADWAY OF HOOVER STREET, FROM LEX AVENUE TO HARTSON AVENUE.**  
The quantity and quality of work to be done is as follows:

- 3,850 square yards of asphalt pavement, including binder course.
- 24 square yards of old stone pavement to be relaid as foundation or in approaches.

848 cubic yards of concrete.  
 2,628 linear feet of new curbstones furnished and set.  
 1,000 linear feet of old curb redressed, rejoined and reset.

The security required will be Seven Thousand Dollars.  
 The time allowed for the completion of the whole work will be thirty-five consecutive working days.

No. 14. REPAVING WITH ASPHALT AND GRANITE BLOCK PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF FIFTH STREET AND CONY AVE. WEST TO THE BRIDGE AT THE HAMILTON AVENUE.

The quantity and quality of work to be done is as follows:

11,177 square yards of asphalt pavement, including binder course.  
 30 square yards of old stone pavement to be relaid as foundation or in approaches.  
 2,442 cubic yards of concrete.  
 1,077 linear feet of cement curbs furnished and set.  
 10 linear feet of old curbstones redressed, rejoined and reset.

6,581 square yards of granite block pavement with paving cement joints.

The security required will be Eighteen Thousand Dollars.

The time allowed for the completion of the whole work will be sixty-five consecutive working days.

No. 15. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT RELIED AS FOUNDATION THE ROADWAY OF CABLETON AVENUE FROM PACIFIC STREET TO FIFTH AVENUE.

The quantity and quality of work to be done is as follows:

6,480 square yards of asphalt pavement, including binder course.  
 6,480 square yards of old stone pavement to be relaid as foundation or in approaches.  
 100 linear feet of new curbstones furnished and set.  
 100 linear feet of old curbstones redressed, rejoined and reset.

The security required will be Five Thousand Dollars.

The time allowed for the completion of the whole work will be thirty-five consecutive working days.

No. 16. REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF CATON AVENUE FROM FIFTH AVENUE TO EIGHTH AVENUE.

The quantity and quality of work to be done is as follows:

1,041 cubic yards of earth excavation.  
 1,041 square yards of asphalt pavement, including binder course.  
 548 cubic yards of concrete.  
 1,840 linear feet of cement curb furnished and set.  
 10 linear feet of old curbstones redressed, rejoined and reset.

6,112 square feet of new flagstone furnished and laid.  
 100 square feet of old flagstone retrimmed and relaid.

The security required will be Five Thousand Dollars.

The time allowed for the completion of the whole work will be thirty consecutive working days.

No. 17. REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF ALABAMA AVENUE FROM ATLANTIC AVENUE TO TELEGRAPH AVENUE.

The quantity and quality of work to be done is as follows:

1,066 cubic yards of earth excavation.  
 1,066 square yards of asphalt pavement, including binder course.  
 47 square yards of old stone pavement to be relaid in approaches. (Not to be bid for.)  
 100 cubic yards of concrete.  
 2,000 linear feet of new curbstones furnished and set.  
 600 linear feet of old curbstones redressed, rejoined and reset.

700 square feet of new flagstone furnished and laid.  
 4,000 square feet of old flagstone retrimmed and relaid.

The security required will be Five Thousand Dollars.

The time allowed for the completion of the whole work will be thirty consecutive working days.

No. 18. REGULATING, GRADING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF SACKMAN STREET FROM PULLEN AVENUE TO FIFTH AVENUE.

The quantity and quality of work to be done is as follows:

1,772 cubic yards of earth excavation.  
 1,772 square yards of asphalt pavement, including binder course.  
 29 square yards of old stone pavement to be relaid in approaches. (Not to be bid for.)  
 273 cubic yards of concrete.  
 1,460 linear feet of cement curb furnished and set.  
 40 linear feet of old curbstones redressed, rejoined and reset.

19,370 square feet of cement sidewalks furnished and laid.  
 2,600 square feet of old flagstone retrimmed and relaid.

The security required will be Five Thousand Dollars.

The time allowed for the completion of the whole work will be thirty-five consecutive working days.

**Borough of the Bronx.**

No. 19. REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT THE ROADWAY OF MORRIS AVENUE FROM ONE HUNDRED AND THIRTY-EIGHTH STREET TO ONE HUNDRED AND FIFTY-FIFTH STREET AND WITH GRANITE BLOCKS ON A CONCRETE FOUNDATION WITH ASPHALT STRIPS MORRIS AVENUE FROM ONE HUNDRED AND FIFTY-FIFTH STREET TO ONE HUNDRED AND FIFTY-SIXTH STREET.

The quantity and quality of work to be done is as follows:

22,760 square yards of asphalt pavement, including binder course.  
 12,500 square yards of old stone pavement to be relaid as foundation or in approaches.  
 400 cubic yards of concrete.  
 7,500 linear feet of new curbstones in concrete furnished and set.  
 800 linear feet of old curbstones in concrete, redressed, rejoined and reset.  
 7,000 square yards of new granite block pavement.  
 1,200 square feet of new flagstone for crosswalks furnished and laid.

The security required will be Twenty-five Thousand Dollars.

The time allowed for the completion of the whole work will be one hundred and fifty consecutive working days.

No. 20. REPAVING WITH ASPHALT PAVEMENT ON THE PRESENT PAVEMENT THE ROADWAY OF ELGAN AVENUE FROM ONE HUNDRED AND FIFTY-FIFTH STREET TO ONE HUNDRED AND SIXTY-FIFTH STREET.

The quantity and quality of work to be done is as follows:

4,170 square yards of asphalt pavement, including binder course.  
 4,170 square yards of old stone pavement to be relaid as foundation or in approaches.  
 2,410 linear feet of new curbstones in concrete furnished and set.  
 50 linear feet of old curbstones in concrete redressed, rejoined and reset.

The security required will be Six Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

No. 21. REPAVING WITH ASPHALT PAVEMENT ON PRESENT BLOCK PAVEMENT THE ROADWAY OF ONE HUNDRED AND THIRTY-FIFTH STREET FROM THIRD AVENUE TO NINTH AVENUE.

The quantity and quality of work to be done is as follows:

1,020 square yards of asphalt pavement, including binder course.  
 600 square yards of old stone pavement to be relaid as foundation or in approaches.  
 800 linear feet of new curbstones furnished and set in concrete.

The security required will be Three Thousand Dollars.

The time allowed for the completion of the whole work will be thirty consecutive working days.

**Borough of Queens.**

No. 22. REPAVING WITH ASPHALT ON MACADAM PAVEMENT PREPARED AS FOUNDATION THE ROADWAY OF MAIN STREET, FLUSHING, THIRD WARD, FROM BROADWAY TO JAMAICA AVENUE.

The quantity and quality of work to be done is as follows:

12,100 square yards of asphalt pavement, including binder course.  
 4,000 linear feet of new curbstones furnished and set.  
 17,100 square yards of macadam pavement prepared as foundation.

The security required is Fifteen Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

The person or persons making an estimate shall furnish the same in a sealed envelope addressed with the title given above of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the 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 each of the persons making the same, the names of all persons interested with him or them therein, and if no other person be so interested it shall distinctly state that fact; also, that it is made without any collusion, 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 Municipal Assembly, head of a department, chief of a bureau, deputy thereof or clerk therein or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The 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.

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 surety or surety company duly authorized by law to act as a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check or money to the amount of five per centum of the amount of the bond required, as required in section 450 of the Greater New York Charter.

For particulars as to the quantity and quality of the supplies or of the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications and plans. The work and the materials must conform in every respect to such printed specifications and plans. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required for making their estimates.

Bidders will write out the amount of their estimates (in addition to inserting the same in figures). THE COMMISSIONER OF HIGHWAYS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY SO TO DO.

Bidders are required 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 the copy of the contract, including the specifications, in the form approved by the Corporation Council, can be obtained on application therefor at the office of the Commissioner of Highways, Room No. 1035, where the plans and drawings, which are made a part of the specifications, can be seen.

JAMES P. KEATING,  
 Commissioner of Highways.

DEPARTMENT OF HIGHWAYS,  
 COMMISSIONER'S OFFICE, NO. 1035 10TH PARK ROW,  
 NEW YORK, JULY 18, 1901.

**TO CONTRACTORS.**

BIDS OR ESTIMATES, INCLOSED IN A sealed envelope, with the title of the work and the name of the bidder indicated therein, also the number of the work in the advertisement, will be received at No. 1035 Park Row, in Room 1035, until 11 o'clock, on

**TUESDAY, JULY 23, 1901,**

at which time and place the bids or estimates received will be publicly opened by the head of the Department.

On all the following contracts, as enumerated below, for paving or repaving with asphalt, block or granite pavement, the attention of bidders is particularly called to the requirements of the specifications whereby they are obliged to furnish suitable samples of all materials to be used with the Commissioner of Highways four (4) full days (holidays and Sundays excluded) before the day of opening bids as stated in this advertisement.

Such samples and materials when deposited must be properly marked, be accompanied by proper certificates, etc., etc., all in strict conformity with the requirements of the specifications.

**Borough of Manhattan.**

No. 1. REPAVING WITH ASPHALT BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF WEST EIGHTY-EIGHTH STREET FROM CENTRAL PARK WEST TO BROADWAY.

The quantity and quality of work to be done is as follows:

6,740 square yards of asphalt block pavement.  
 40 square yards of old stone block pavement to be laid in approaches.  
 1,158 cubic yards of concrete, including mortar bed.  
 1,275 linear feet of new curb furnished and set.  
 200 linear feet of old curbstones redressed, rejoined and reset.  
 4 noisless covers complete for water manholes furnished and set.  
 11 noisless covers complete for sewer manholes furnished and set.

The security required will be Nine Thousand Dollars.

The time allowed for the completion of the whole work will be fifty consecutive working days.

No. 2. PAVING WITH ASPHALT BLOCKS ON CONCRETE FOUNDATION THE ROADWAY OF EDGEcombe AVENUE FROM THE NORTH LINE OF ONE HUNDRED AND FIFTY-FIFTH STREET TO THE SOUTH LINE OF ONE HUNDRED AND SEVENTY-FIRST STREET, AT ITS INTERSECTION WITH THE EAST SIDE OF AMSTERDAM AVENUE.

The quantity and quality of work to be done is as follows:

21,000 square yards of asphalt block pavement.  
 2,075 cubic yards of concrete.  
 500 linear feet of new curb furnished and set on concrete foundation.

200 linear feet of old curb redressed, rejoined and reset on concrete foundation.  
 8,000 linear feet of old curb reset on concrete foundation.  
 600 square feet of old bridgestone to be redressed and relaid (not to be bid for).  
 30 noisless covers complete for sewer manholes (not to be bid for).  
 3 noisless covers complete for water manholes (not to be bid for).

The security required will be Twenty-five Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

No. 3. FOR FURNISHING LABOR AND MATERIALS FOR AND CONSTRUCTING A SYSTEM OF DRAINS AND APPURTENANCE ON TWELFTH AVENUE, FROM NEAR ONE HUNDRED AND TWENTY-NINTH STREET TO NEAR ONE HUNDRED AND THIRTY-FOURTH STREET.

The quantity and quality of work to be done is as follows:

1,050 cubic yards of excavation.  
 400 square yards of pavement to be relaid (not to be bid for).  
 97 catch-basins complete with manhole head, etc.  
 95 linear feet of twelve (12) inch cast-iron pipe furnished and laid.  
 120 linear feet of ten (10) inch cast-iron pipe furnished and laid.  
 710 linear feet of eight (8) inch cast-iron pipe furnished and laid.  
 785 linear feet of six (6) inch cast-iron pipe furnished and laid.  
 250 linear feet of five (5) inch wrought-iron pipe furnished and laid.  
 87 five (5) inch forty-five (45) degree bends for wrought-iron pipe furnished and placed (not to be bid for).  
 27 cast-iron wheel guards furnished and set complete.  
 20 cubic yards of concrete for filling column bases furnished and placed.

The security required will be Two Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

**Borough of Brooklyn.**

No. 4. FOR REPAVING WITH GRANITE BLOCK PAVEMENT ON A SAND FOUNDATION THE ROADWAY OF PARK AVENUE FROM HUDSON AVENUE TO CLAWSON AVENUE.

The quantity and quality of work to be done is as follows:

13,000 square yards of new granite block pavement, including sand bed, laid with sand joints.  
 300 square yards of old stone pavement to be relaid in approaches.  
 648 square feet of new granite bridgestones furnished and laid.  
 370 square feet of new bluestone bridgestones furnished and laid.  
 3,700 square feet of old bridgestone redressed, rejoined and relaid.  
 860 linear feet of new curbstones furnished and set.  
 1,200 linear feet of old curbstones redressed, rejoined and reset.  
 10,300 square feet of flagging relaid.

The security required will be Ten Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

No. 5. REPAVING WITH GRANITE-BLOCK PAVEMENT ON A SAND FOUNDATION THE ROADWAY OF UTICA AVENUE FROM EASTERN PARKWAY TO THE LINE BETWEEN THE TWENTY-FOURTH AND TWENTY-NINTH WARD.

The quantity and quality of work to be done is as follows:

4,000 square yards of new granite-block pavement, including sand bed laid with sand joints.  
 10 square yards of old stone block pavement to be relaid in approaches.  
 150 square feet of new granite bridgestones furnished and laid.  
 840 square feet of old bridgestone redressed, rejoined and relaid.  
 960 linear feet of new curbstones furnished and set.  
 1,200 linear feet of old curbstones redressed, rejoined and reset.  
 240 cubic yards of excavation.

The security required will be Three Thousand Dollars.

The time allowed for the completion of the whole work will be thirty-five consecutive working days.

No. 6. REPAVING WITH GRANITE BLOCK PAVEMENT ON SAND FOUNDATION THE ROADWAY OF MELROSE STREET FROM HAMBURG AVENUE TO BROADWAY.

The quantity and quality of work to be done is as follows:

8,594 square yards of new granite block pavement, including sand bed, laid with sand joints.  
 90 square yards of old stone block pavement to be relaid in approaches.  
 617 square feet of new granite bridgestones furnished and laid.  
 948 square feet of old bridgestone redressed, rejoined and relaid.  
 4,271 linear feet of new curbstones furnished and set.  
 800 linear feet of old curbstones redressed, rejoined and reset.  
 100 square feet of new bluestone bridging furnished and laid.

The security required will be Six Thousand Dollars.

The time allowed for the completion of the whole work will be sixty consecutive working days.

**Borough of The Bronx.**

No. 7. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS AND BUILDING APPROACHES IN MINFORD PLACE, FROM JENNINGS STREET TO BOSTON ROAD.

The quantity and quality of work to be done is as follows:

2,800 cubic yards of earth excavation.  
 800 cubic yards of rock excavation.  
 15,100 cubic yards of filling.  
 100 cubic yards of dry rubble masonry in retaining walls, culverts and gutters.  
 2,600 linear feet of new curbstones furnished and set.  
 20,300 square feet of new flagging furnished and laid.  
 674 square feet of new bridgestone for crosswalks furnished and laid.

The security required will be Six Thousand One Hundred Dollars.

The time allowed for the completion of the whole work will be one hundred and twenty consecutive working days.

No. 8. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, IN EAST ONE HUNDRED AND SEVENTY-EIGHTH STREET, FROM LABORER AVENUE TO HUGHES AVENUE.

The quantity and quality of work to be done is as follows:

1,000 cubic yards of earth excavation.  
 350 cubic yards of rock excavation.  
 250 cubic yards of filling.  
 90 linear feet of new curbstones furnished and set.  
 4,100 square feet of new flagging furnished and laid.  
 The security required will be One Thousand Dollars.

The time allowed for the completion of the whole work will be thirty consecutive working days.

No. 9. REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS,

BUILDING APPROACHES AND PLACING FENCES IN EAST ONE HUNDRED AND NINETY-FOURTH STREET, FROM WEBSTER AVENUE TO KINGSBIDGE ROAD.

The quantity and quality of work to be done is as follows:

2,500 cubic yards of earth excavation.  
 800 cubic yards of rock excavation.  
 10,000 cubic yards of filling.  
 100 linear feet of vitrified drain-pipe (12 to 18 inches in diameter) in place.  
 1,500 cubic yards of dry rubble masonry in retaining walls, culverts and gutters.  
 2,025 linear feet of new curbstones furnished and set.  
 100 linear feet of old curbstones taken up and reset (not to be bid for).  
 9,000 square feet of new flagging furnished and laid.  
 100 square feet of old flagging taken up and relaid (not to be bid for).  
 1,200 square feet of new bridgestone for crosswalks furnished and laid.  
 275 square feet of old bridgestone to be relaid (not to be bid for).

The security required will be Seven Thousand Dollars.

The time allowed for the completion of the whole work will be two hundred consecutive working days.

No. 10. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, BUILDING APPROACHES AND PLACING FENCES IN CLINTON PLACE, FROM JEROME AVENUE TO JACOBUS AVENUE, EAST.

The quantity and quality of work to be done is as follows:

3,000 cubic yards of earth excavation.  
 2,000 cubic yards of rock excavation.  
 12,000 cubic yards of filling.  
 50 linear feet of vitrified drain-pipe (12 inches to 18 inches diameter) in place.  
 250 cubic yards of dry rubble masonry in retaining walls, culverts and gutters.  
 1,800 linear feet of new curbstones furnished and set.  
 7,000 square feet of new flagging furnished and laid.  
 4,000 square feet of new bridgestones for crosswalks furnished and laid.

The security required will be Four Thousand Five Hundred Dollars.

The time allowed for the completion of the whole work will be eighty consecutive working days.

No. 11. FOR REGULATING, GRADING, SETTING CURBSTONES, FLAGGING THE SIDEWALKS, LAYING CROSSWALKS, PLACING FENCES, LAYING GRANITE-BLOCK PAVEMENT AND PLANTING TREES IN WEST FARMS ROAD, FROM WEBSTER AVENUE TO TREMONT AVENUE.

The quantity and quality of work to be done is as follows:

25,000 cubic yards of earth excavation.  
 17,500 cubic yards of rock excavation.  
 37,000 cubic yards of filling.  
 100 linear feet of vitrified drain-pipe (12 to 18 inches diameter) in place.  
 1,000 cubic yards of dry rubble masonry in retaining walls, culverts and gutters.  
 15,375 linear feet of new curbstones furnished and set.  
 18,000 square feet of new flagging furnished and laid.  
 7,275 square feet of new bridgestone for crosswalks furnished and laid.  
 5,000 feet, B. M., of lumber furnished and laid.  
 31,000 square yards of granite-block pavement on sand foundation.  
 150 trees planted on sidewalks.

The security required will be Four Thousand Five Hundred Dollars.

The time allowed for the completion of the whole work will be eighty consecutive working days.

No. 12. REPAVING WITH ASPHALT-BLOCK PAVEMENT ON CONCRETE FOUNDATION THE ROADWAY OF EAST ONE HUNDRED AND FORTY-FIRST STREET, FROM THIRD AVENUE TO BROOK AVENUE.

The quantity and quality of work to be done is as follows:

6,600 square yards of asphalt-block pavement.  
 120 square yards of old stone-block pavement to be relaid in approaches, etc. (not to be bid for).  
 1,070 cubic yards of concrete, including mortar bed.  
 1,500 linear feet of new curbstones furnished and set.

The security required will be Eight Thousand Dollars.

The time allowed for the completion of the whole work will be seventy-five consecutive working days.

The person or persons making an estimate shall furnish the same in a sealed envelope addressed with the title given above of the work for which the estimate is made, with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the 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 each of the persons making the same, the names of all persons interested with him or them therein, and if no other person be so interested it shall distinctly state that fact; also, that it is made without any collusion 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 Municipal Assembly, head of a department, chief of a bureau, deputy thereof or clerk therein or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The 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.

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 surety or surety company duly authorized by law to act as a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check or money to the amount of five per centum of the amount of the bond required, as required in section 450 of the Greater New York Charter.

For particulars as to the quantity and quality of the supplies or of the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications and plans. The work and the materials must conform in every respect to such printed specifications and plans. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required for making their estimates.

Bidders will write out the amount of their estimates in addition to inserting the same in figures.

THE COMMISSIONER OF HIGHWAYS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY SO TO DO.

Bidders are required 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 the copy of the contract, including the specifications, in the form approved by the Corporation Council, can be obtained on application therefor at the office of the Commissioner of Highways, Room No. 1035, where the plans and drawings which are made a part of the specifications can be seen.

JAMES P. KEATING,  
 Commissioner of Highways.

DEPARTMENT OF EDUCATION.

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE COMMITTEE ON BUILDINGS OF THE BOARD OF EDUCATION OF THE CITY OF NEW YORK, AT THE HALL OF THE BOARD, SOUTHWEST CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, UNTIL 1 O'CLOCK P. M., ON

MONDAY, JULY 22, 1901.

Borough of Brooklyn.

No. 1. FOR ALTERATIONS, REPAIRS, ETC., IN BALZER HALL, GRANT AND PROSPECT STREETS, BOROUGH OF BROOKLYN.

No. 2. FOR INSTALLING HEATING AND VENTILATING APPARATUS IN PUBLIC SCHOOL NO. 20, GATES, NEAR RALPH AVENUE; PUBLIC SCHOOL NO. 34, NUGMAN AVENUE, NEAR ECKFORD STREET, AND GIRLS' HIGH SCHOOL, NOSTRAND AVENUE, CORNER OF HALSEY STREET, BOROUGH OF BROOKLYN.

Boroughs of Manhattan and The Bronx. No. 3. FOR REPAIRS, ITEM 1, PUBLIC SCHOOL NO. 38, No. 308 BROOME STREET, BOROUGH OF MANHATTAN.

No. 4. FOR INSTALLING HEATING AND VENTILATING APPARATUS IN ADDITION TO PUBLIC SCHOOL NO. 133, SOUTHWEST CORNER OF FOG AND ONE HUNDRED AND SIXTY-SEVENTH STREETS, BOROUGH OF THE BRONX.

No. 5. FOR INSTALLING ELECTRIC-LIGHT WIRING, FIXTURES, ELECTRIC-BELL SYSTEM, ETC., WADLEIGH HIGH SCHOOL, ONE HUNDRED AND FOURTEENTH AND ONE HUNDRED AND FIFTEENTH STREETS, 100 FEET WEST OF SEVENTH AVENUE, BOROUGH OF MANHATTAN.

No. 6. FOR INSTALLING HEATING AND VENTILATING APPARATUS, WADLEIGH HIGH SCHOOL, ONE HUNDRED AND FOURTEENTH AND ONE HUNDRED AND FIFTEENTH STREETS, 100 FEET WEST OF SEVENTH AVENUE, BOROUGH OF MANHATTAN.

The security required on Contract No. 1 is Twenty-seven Hundred (\$2,700) Dollars.

The security required on the several jobs mentioned under Contract No. 2 is Fifteen Hundred (\$1,500) Dollars on Public School 20; Eighteen Hundred and Fifty (\$1,850) Dollars on Public School 34, and Eighteen Hundred and Fifty (\$1,850) Dollars on Girls' High School, Borough of Brooklyn.

The security required on Contract No. 3 is Fifteen Hundred (\$1,500) Dollars.

The security required on Contract No. 4 is Ten Thousand (\$10,000) Dollars.

The security required on Contract No. 5 is Ten Thousand (\$10,000) Dollars.

The security required on Contract No. 6 is Thirty Thousand (\$30,000) Dollars.

The time allowed to complete Contract No. 1 is sixty (60) days.

The time allowed to complete the several jobs mentioned under Contract No. 2 is sixty (60) days.

The time allowed to complete Contract No. 3 is sixty (60) days.

The time allowed to complete Contract No. 4 is seventy (70) days.

The time allowed to complete Contract No. 5 is ninety (90) days.

The time allowed to complete Contract No. 6 is ninety (90) days.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names and the date of presentation, to the Committee on Buildings of said Department, at the said office, on or before the date and hour above named, and which time and place the estimates received will be publicly opened by the Committee on Buildings and read, and the award of the contract made to the lowest bidder, according to law.

Each 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 that no officer of the City of New York is directly or indirectly interested therein, as provided in sections 245 to 252 of the Revised Ordinances, 1897, and in the blank form of bid mentioned below and furnished by the Department.

The estimate must be verified. 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check 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.

For particulars as to the quantity and quality of the supplies or the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications and the plans.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Committee on Buildings, a copy of which, and also the proper envelope in which to inclose the same, together with the form of agreement, including specifications, in the form approved by the Corporation Counsel, and showing the manner of payment for the work, can be obtained upon application therefor at the estimating room, eighth floor, Hall of the Board of Education, corner of Park Avenue and Fifty-ninth street, Borough of Manhattan.

The By-Laws of the Board of Education may be examined at the office of the Secretary.

Dated Borough of Manhattan, July 11, 1901.

RICHARD H. ADAMS, CHARLES E. ROBERTSON, ABRAHAM STERN, WILLIAM J. COLE, PATRICK J. WHITE, JOHN R. THOMPSON, JOSEPH J. KITTEL, Committee on Buildings.

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE COMMITTEE ON BUILDINGS OF THE BOARD OF EDUCATION OF THE CITY OF NEW YORK, AT THE HALL OF THE BOARD, SOUTHWEST CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, UNTIL 1 O'CLOCK P. M., ON

MONDAY, JULY 22, 1901.

Borough of Brooklyn.

No. 1. FURNITURE FOR NEW PUBLIC SCHOOL, 178, NORTH SIDE OF ONE HUNDRED AND SIXTY-THIRD STREET, BETWEEN GRANT AND MORRIS AVENUES, BOROUGH OF THE BRONX.

No. 2. SANITARY WORK AT WADLEIGH HIGH SCHOOL, ONE HUNDRED AND

FOURTEENTH AND ONE HUNDRED AND FIFTEENTH STREETS, ONE HUNDRED FEET WEST OF SEVENTH AVENUE, BOROUGH OF MANHATTAN.

Borough of Queens.

No. 3. FOR ERECTING NEW PUBLIC SCHOOL, 86, GREENPOINT AVENUE AND PEARSALE STREET, EAST OF BRADLEY AVENUE, BOROUGH OF QUEENS.

Borough of Richmond.

No. 4. FOR ERECTING RICHMOND BOROUGH HIGH SCHOOL NO. 1, JAY AND WALL STREETS AND STUYVESANT PLACE, NEW BRIGHTON, BOROUGH OF RICHMOND.

No. 5. FOR INSTALLING ELECTRIC-LIGHT WIRING, FIXTURES, AND ELECTRIC BELL SYSTEM IN PUBLIC SCHOOL, 18, ON NORTHEAST CORNER OF BROADWAY AND MARKET STREET, WEST NEW BRIGHTON, BOROUGH OF RICHMOND.

The security required on Contract No. 1 is Five Hundred and Fifty (\$550) Dollars on Item 1; Five Hundred (\$500) Dollars on Item 2; Five Hundred (\$500) Dollars on Item 3; and Seven Hundred (\$700) Dollars on Item 4.

The security required on Contract No. 2 is Ten Thousand (\$10,000) Dollars.

The security required on Contract No. 3 is Fifty Thousand (\$50,000) Dollars.

The security required on Contract No. 4 is Seventy-five Thousand (\$75,000) Dollars.

The security required on Contract No. 5 is Seven Hundred (\$700) Dollars.

The time allowed to complete Contract No. 1 is September 1, 1901.

The time allowed to complete Contract No. 2 is December 31, 1901.

The time allowed to complete Contract No. 3 is two hundred and fifty (250) days.

The time allowed to complete Contract No. 4 is three hundred (300) days.

The time allowed to complete Contract No. 5 is August 24, 1901.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names and the date of presentation, to the Committee on Buildings of said Department, at the said office, on or before the date and hour above named, and which time and place the estimates received will be publicly opened by the Committee on Buildings and read, and the award of the contract made to the lowest bidder, according to law.

Each 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 that no officer of the City of New York is directly or indirectly interested therein, as provided in sections 245 to 252 of the Revised Ordinances, 1897, and in the blank form of bid mentioned below and furnished by the Department.

The estimate must be verified. 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check 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.

For particulars as to the quantity and quality of the supplies or the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications and the plans.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Committee on Buildings, a copy of which, and also the proper envelope in which to inclose the same, together with the form of agreement, including specifications, in the form approved by the Corporation Counsel, and showing the manner of payment for the work, can be obtained upon application therefor at the estimating room, eighth floor, Hall of the Board of Education, corner of Park Avenue and Fifty-ninth street, Borough of Manhattan.

The By-Laws of the Board of Education may be examined at the office of the Secretary.

Dated Borough of Manhattan, June 24, 1901.

RICHARD H. ADAMS, CHARLES E. ROBERTSON, ABRAHAM STERN, WILLIAM J. COLE, PATRICK J. WHITE, JOHN R. THOMPSON, JOSEPH J. KITTEL, Committee on Buildings.

DEPARTMENT OF EDUCATION, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE COMMITTEE ON BUILDINGS OF THE BOARD OF EDUCATION OF THE CITY OF NEW YORK, AT THE HALL OF THE BOARD, SOUTHWEST CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, UNTIL 1 O'CLOCK P. M., ON

MONDAY, JULY 22, 1901.

Borough of Brooklyn.

No. 1. FOR IMPROVING THE SANITARY CONDITION AND ALTERATIONS TO PUBLIC SCHOOLS 23, 27, 34, 27, 35, 55, 57, 85 AND BOYS' HIGH SCHOOL, BOROUGH OF BROOKLYN.

No. 2. FOR NEW FURNITURE FOR OLD SCHOOL BUILDINGS, BOROUGH OF BROOKLYN.

Boroughs of Manhattan and The Bronx. No. 3. FOR IMPROVING THE SANITARY CONDITION OF PUBLIC SCHOOLS 7, 23, 25, 27, 36, 47, 57, 71, 72, 73, 77, 79, 88, 89, 103, 117 AND 125, BOROUGH OF MANHATTAN AND THE BRONX.

No. 4. FOR ALTERATIONS, REPAIRS, ETC., AT PUBLIC SCHOOLS 5, 20, 43, 45, 60, 66, 68, 81, 89, 91, 115 AND 157, BOROUGH OF MANHATTAN AND THE BRONX.

Borough of Queens.

No. 5. FOR NEW FURNITURE FOR PUBLIC SCHOOL, 44, CORNER OF BOULEVARD AND ACADEMY STREET, ROCKAWAY BEACH, BOROUGH OF QUEENS.

The security required on the several jobs mentioned under No. 1 is Seventeen Hundred (\$1,700) Dollars on Public School 23; Nine Hundred (\$900) Dollars on Public School 27; Eight Hundred (\$800) Dollars on Public School 34; Three Thousand (\$3,000) Dollars on Public School 57; Forty-five Hundred (\$4,500) Dollars on Public School 85; Twenty-one Hundred (\$2,100) Dollars on Public School 55; Four Thousand (\$4,000) Dollars on Public School 57; Fifteen Hundred (\$1,500) Dollars on Public School 80, and Twelve Hundred (\$1,200) Dollars on Boys' High School, Borough of Brooklyn.

The security required on Contract No. 2 is Ten Thousand (\$10,000) Dollars.

The security required on the several jobs under No. 3 is Eight Hundred (\$800) Dollars on Public School 7, and Five Hundred (\$500) Dollars on Public Schools 23, 25,

27, 36, 47, 57, 71, 72, 73, 77, 79, 88, 89, 103, 115, and 157.

The security required on the several jobs under No. 4 is Nine Hundred (\$900) Dollars on Public School 51; Eight Hundred (\$800) Dollars on Public School 59; Nine Hundred (\$900) Dollars on Public School 43; Seven Hundred (\$700) Dollars on Public School 46; Eight Hundred (\$800) Dollars on Public School 62; Six Hundred (\$600) Dollars on Public School 66; Twelve Hundred (\$1,200) Dollars on Public School 88; Four Hundred (\$400) Dollars on Public School 87; Nine Hundred (\$900) Dollars on Public School 89; Five Hundred (\$500) Dollars on Public School 91; Eight Hundred (\$800) Dollars on Public School 155, and Five Hundred (\$500) Dollars on Public School 167, boroughs of Manhattan and The Bronx.

The security required on Contract No. 5 is Twelve Hundred (\$1,200) Dollars on Item 1, and Seven Hundred (\$700) Dollars on Item 2.

The time allowed to complete the several jobs mentioned under Contract No. 1 is sixty (60) days.

The time allowed to complete Contract No. 2 is September 15, 1901.

The time allowed to complete the several jobs mentioned under No. 3 is sixty (60) days.

The time allowed to complete the several jobs mentioned under No. 4 is sixty (60) days.

The time allowed to complete Contract No. 5 is sixty (60) days.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names and the date of presentation, to the Committee on Buildings of said Department, at the said office, on or before the date and hour above named, and which time and place the estimates received will be publicly opened by the Committee on Buildings and read, and the award of the contract made to the lowest bidder, according to law.

Each 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 that no officer of the City of New York is directly or indirectly interested therein, as provided in sections 245 to 252 of the Revised Ordinances, 1897, and in the blank form of bid mentioned below and furnished by the Department.

The estimate must be verified. 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check 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.

For particulars as to the quantity and quality of the supplies or the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications and the plans.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Committee on Buildings, a copy of which, and also the proper envelope in which to inclose the same, together with the form of agreement, including specifications, in the form approved by the Corporation Counsel, and showing the manner of payment for the work, can be obtained upon application therefor at the estimating room, eighth floor, Hall of the Board of Education, corner of Park Avenue and Fifty-ninth street, Borough of Manhattan.

The By-Laws of the Board of Education may be examined at the office of the Secretary.

Dated Borough of Manhattan, June 20, 1901.

RICHARD H. ADAMS, CHARLES E. ROBERTSON, ABRAHAM STERN, WILLIAM J. COLE, PATRICK J. WHITE, JOHN R. THOMPSON, JOSEPH J. KITTEL, Committee on Buildings.

DEPARTMENT OF STREET CLEANING, CORNER PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

PROPOSALS FOR BIDS OR ESTIMATES. Borough of Manhattan.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE DEPARTMENT OF STREET CLEANING, AT THE ABOVE OFFICE, UNTIL 12 O'CLOCK P. M., ON

TUESDAY, THE 30th DAY OF JULY, 1901.

for the final disposition of all refuse and kindred refuse that may be collected and deposited at the dumps of the Department of Street Cleaning in the Borough of Manhattan.

The average daily amount to be handled is estimated at four hundred and fifty (450) tons.

The period of the work under this contract will be for the term of one (1) year from August 1, 1901.

The amount of security required is One Hundred Thousand Dollars.

The person or persons making a bid or estimate must furnish the same in a sealed envelope indorsed with the title of the work, with his or their name or names and place of residence and date of presentation, at the said office, on or before the date and hour above mentioned, at which time and place the bids or estimates will be publicly opened by the head of the said Department.

Each bid or estimate shall contain the name and place of residence of each of the persons 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 a bid or estimate for the same purpose and that it is in all respects fair and without collusion or fraud, that no member of the Municipal Assembly, head of a department, deputy thereof, or clerk thereof, chief of a bureau, school commissioner or any public officer of the City is directly or indirectly interested therein, or in the supplies or work for which it relates or in any portion of the profits thereof, as principal, surety or otherwise.

The bid or estimate must be verified by the oath in writing of the person making the same, that the several matters stated therein 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

Each bid or estimate must be accompanied by a certified check on a solvent banking corporation in the City of New York, payable to the Comptroller, for five per centum of the amount for which the work bid for is proposed in any one year to be performed.

For the nature and extent of the work and other practical matters in relation thereto bidders are referred to the printed specifications.

From the bids or estimates so received the Commissioner may select the bid or bids, the acceptance of which will, in his judgment, best secure the efficient performance of the work, or he may reject any or all of the said bids.

Bidders are requested to make their bids or estimates on 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 of Street Cleaning.

Dated New York, July 10, 1901.

P. J. NAGLE, Commissioner of Street Cleaning.

DEPARTMENT OF STREET CLEANING, MAIN OFFICE, Nos. 11 TO 27 PARK ROW, BOROUGH OF MANHATTAN.

PROPOSALS FOR BIDS OR ESTIMATES. Borough of The Bronx.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE DEPARTMENT OF STREET CLEANING, AT THE ABOVE OFFICE, UNTIL 12 O'CLOCK P. M., ON

TUESDAY, THE 30th DAY OF JULY, 1901.

for the final disposition of all garbage and kindred refuse and all rubbish and light refuse that may be collected in the Borough of The Bronx.

The quantities to be disposed of are to be estimated on the basis of the quantities collected in 1899, which were as follows:

Garbage—The average daily collection was twenty-two (22) tons, the maximum collection was during the month of August, when the average daily collection was forty-three (43) tons.

Rubbish and Light Refuse—The average daily collection of this material was nineteen (19) tons or one hundred and seventy-five (175) cubic yards, the maximum collection was during the months of May and June when the daily average was twenty-three (23) tons.

The period of the work under this contract will be for the term of one (1) year from August 1, 1901.

The amount of security required is Twenty Thousand Dollars (\$20,000).

The person or persons making a bid or estimate must furnish the same in a sealed envelope indorsed with the title of the work, with his or their name or names and place of residence and date of presentation, at the said office, on or before the date and hour above mentioned, at which time and place the bids or estimates will be publicly opened by the head of the said Department.

Each bid or estimate shall contain the name and place of residence of each of the persons 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 a bid or estimate for the same purpose and that it is in all respects fair and without collusion or fraud, that no member of the Municipal Assembly, head of a department, deputy thereof, or clerk thereof, chief of a bureau, school commissioner, or any public officer of the City is directly or indirectly interested therein, or in the supplies or work for which it relates or in any portion of the profits thereof, as principal, surety or otherwise.

Each bid or estimate shall be verified by the oath in writing of the person making the same that the several matters stated therein 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

Each bid or estimate must be accompanied by a certified check on a solvent banking corporation in the City of New York, payable to the Comptroller, for five per centum of the amount for which the work bid for is proposed in any one year to be performed.

For the nature and extent of the work and other practical matters in relation thereto bidders are referred to the printed specifications.

From the bids or estimates so received the Commissioner may select the bid or bids, the acceptance of which will, in his judgment, best secure the efficient performance of the work, or he may reject any or all of the said bids.

Bidders are requested to make their bids or estimates on 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 of Street Cleaning.

Dated New York, July 10, 1901.

P. J. NAGLE, Commissioner of Street Cleaning.

DEPARTMENT OF STREET CLEANING, MAIN OFFICE, Nos. 11 TO 27 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

PROPOSALS FOR BIDS OR ESTIMATES. Borough of Manhattan.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE DEPARTMENT OF STREET CLEANING, AT THE ABOVE OFFICE, UNTIL 12 O'CLOCK P. M., ON

TUESDAY, THE 30th DAY OF JULY, 1901.

for the final disposition of all refuse and kindred refuse that may be collected and deposited at the dumps of the Department of Street Cleaning in the Borough of Manhattan.

The average daily amount to be handled is estimated at four hundred and fifty (450) tons.

The period of the work under this contract will be for the term of one (1) year from August 1, 1901.

The amount of security required is One Hundred Thousand Dollars.

The person or persons making a bid or estimate must furnish the same in a sealed envelope indorsed with the title of the work, with his or their name or names and place of residence and date of presentation, at the said office, on or before the date and hour above mentioned, at which time and place the bids or estimates will be publicly opened by the head of the said Department.

Each bid or estimate shall contain the name and place of residence of each of the persons 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 a bid or estimate for the same purpose and that it is in all respects fair and without collusion or fraud, that no member of the Municipal Assembly, head of a department, deputy thereof, or clerk thereof, chief of a bureau, school commissioner or any public officer of the City is directly or indirectly interested therein, or in the supplies or work for which it relates or in any portion of the profits thereof, as principal, surety or otherwise.

The bid or estimate must be verified by the oath in writing of the person making the same, that the several matters stated therein 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

Each bid or estimate must be accompanied by a certified check on a solvent banking corporation in the City of New York, payable to the Comptroller, for five per centum of the amount for which the work bid for is proposed in any one year to be performed.

For the nature and extent of the work and other practical matters in relation thereto bidders are referred to the printed specifications.

From the bids or estimates so received the Commissioner may select the bid or bids, the acceptance of which will, in his judgment, best secure the efficient performance of the work, or he may reject any or all of the said bids.

Bidders are requested to make their bids or estimates on 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 of Street Cleaning.

Dated New York, July 10, 1901.

P. J. NAGLE, Commissioner of Street Cleaning.

DEPARTMENT OF STREET CLEANING, MAIN OFFICE, Nos. 11 TO 27 PARK ROW, BOROUGH OF MANHATTAN.

PROPOSALS FOR BIDS OR ESTIMATES. Borough of Manhattan.

SEALED BIDS OR ESTIMATES FOR FURNISHING STORAGE FOR THE USE OF THE DEPARTMENT OF STREET CLEANING, AT Nos. 11 TO 27 PARK ROW, BOROUGH OF MANHATTAN, UNTIL 12 O'CLOCK P. M., ON

FRIDAY, THE 26th DAY OF JULY, 1901.

at which time and place the said bids or estimates will be publicly opened by the head of the Department for the following articles:

278,000 pounds Hay, of the quality and standard known as prima hay.

54,000 pounds No. 1 clean, long Rye Straw.

White (Clipped) Oats, to be available, well cleaned and free from more grain, weighing not less than 40 pounds in the measured bushel.

Best quality Flax Seed.

Best quality First Quality Flax Seed.

Best quality First Quality Flax Seed.

Best quality First Quality Flax Seed.

Best quality First Quality Flax Seed.

The time allowed for the completion of the contract is until September 30, 1901.

The person or persons making a bid or estimate shall furnish the same in a sealed envelope indorsed with the title of the work for which the estimate is made, with his or their name or names, and the date of presentation, to the head of the said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of the Department and read, and the award of the contract made to the lowest bidder, with adequate security, as soon thereafter as practicable.

Each estimate shall contain the name and place of residence of the person making the same, and the names of all persons interested with him therein, and that no other person be so interested if it is made without any connection with any other person making a bid or estimate, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau or other officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The estimate shall be verified by the oath, in writing of the party making the same, that the several matters stated therein are in all respects true.

Bidders must state in their bids or estimates the price for which they will furnish the supplies, and these prices must be written out and must be given also in figures.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No bid or estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quality and quantity of the supplies and the nature and extent of the work required, reference must be made to the specifications.

Bidders are requested to make their bids or estimates upon the blank prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the specifications, including the specifications, to the form approved by the Corporation Council, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the said Commissioner.

Dated New York, July 19, 1901.

F. M. GIBSON,  
Deputy Commissioner, Borough of Manhattan,  
designated with full powers of Commissioner.

**PUBLIC NOTICE.**

**SEALED BIDS OR ESTIMATES FOR FURNISHING LUMBER FOR THE USE OF THE DEPARTMENT OF STREET CLEANING, IN THE BOROUGHS OF MANHATTAN AND THE BRONX, WILL BE RECEIVED AT THE MAIN OFFICE OF THE DEPARTMENT AT 25 PARK ROW, UNTIL 12 O'CLOCK P. M. ON**

**TUESDAY, THE 23RD DAY OF JULY, 1901,**

for the following named supplies or articles:

One hundred cords of the dimensions set forth in specifications, which form a part of the contract.

The amount of security required is One Thousand Five Hundred Dollars.

The person or persons making an estimate shall furnish the same in a sealed envelope indorsed with the title of the work for which the bid or estimate is made, with his or their name or names, and the date of presentation, to the head of the said Department, at the said office, on or before the date and hour above named, at which time and place the estimates will be publicly opened by the head of the Department and read, and the award of the contract made to the lowest bidder, with adequate security, as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, and the names of all persons interested with him therein, and that no other person be so interested if it is made without any connection with any other person making a bid or estimate, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau or other officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The estimate shall be verified by the oath, in writing of the party making the same, that the several matters stated therein are in all respects true.

Bidders must state in their bids or estimates the price for which they will furnish the supplies, and this price must be written out and must be given also in figures.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No bid or estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quantity and quality of the supplies and the nature and extent of the work required, reference must be made to the specifications.

Bidders are requested to make their bids or estimates upon the blank prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the specifications, including the specifications, to the form approved by the Corporation Council, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the said Commissioner.

F. M. GIBSON,  
Deputy Commissioner of Street Cleaning, Borough of Manhattan, designated with full powers of Commissioner.

**DEPARTMENT OF STREET CLEANING, BOROUGHS OF MANHATTAN AND THE BRONX.**

MAIN OFFICE, NOS. 25 TO 27 PARK ROW, BOROUGHS OF MANHATTAN, NEW YORK, July 19, 1901.

**PUBLIC NOTICE.**

**SEALED BIDS OR ESTIMATES FOR FURNISHING LUMBER FOR THE USE OF THE DEPARTMENT OF STREET CLEANING, IN THE BOROUGHS OF MANHATTAN AND**

The Bronx, will be received at the main office, as above, until 12 o'clock P. M. on

**TUESDAY, THE 23RD DAY OF JULY, 1901,**

at which time and place the said bids or estimates will be publicly opened by the head of the said Department and read, and the award of the contract made to the lowest bidder, with adequate security, as soon thereafter as practicable.

The time for the completion of the contract is December 31, 1901.

The amount of the security will be one-half of the amount of the prices bid.

**First Quality Yellow Pine.**  
Total, 25,000 feet, B. M.

**First Quality White Pine.**  
Total, 10,000 feet, B. M.

**Clear Cypress, 2 1/2 inch, B. W.**  
Total, 9,000 feet, B. M.

**Best Quality Spruce.**  
Total, 9,000 feet, B. M.

**North Carolina Pine (Anchored).**  
Total, 9,000 feet, B. M.

**White Wood (used on both sides).**  
Total, 7,000 feet, B. M.

**White Oak.**  
Total, 1,400 feet, B. M.

The person or persons making an estimate shall furnish the same in a sealed envelope indorsed with the title given above of the work for which the estimate is made, with his or their name or names, and the date of presentation, to the head of the said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of the 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, the names of all persons interested with him therein, and that no other person be so interested if it is made without any connection with any other person making a bid or estimate, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau, school commissioner, or other public officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The bid or estimate shall be accompanied by the consent, in writing, of the party making the same that the several matters stated therein are in all respects true.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid or estimate mentioned below.

No bid or estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quantity and quality of the supplies required or the nature and extent of the work required, reference must be made to the printed specifications.

Bidders are requested to make their bids or estimates upon the blank prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the specifications, including the specifications, to the form approved by the Corporation Council, and showing the manner of payment for the supplies, can be obtained upon application therefor at the office of the said Commissioner.

F. M. GIBSON,  
Deputy Commissioner of Street Cleaning, Borough of Manhattan, designated with full powers of Commissioner.

**PERSONS HAVING BULKHEADS TO FILL,**

in the vicinity of New York City, can procure material for that purpose—ashes, street sweepings, etc., such as is collected by the Department of Street Cleaning, free of charge, by applying to the Commissioner of Street Cleaning, Nos. 25 to 27 Park Row, Borough of Manhattan.

PERCIVAL E. NAAGLE,  
Commissioner of Street Cleaning.

**DEPARTMENT OF PUBLIC BUILDINGS, LIGHTING AND SUPPLIES.**

DEPARTMENT OF PUBLIC BUILDINGS, LIGHTING AND SUPPLIES,  
COMMISSIONER'S OFFICE, NOS. 25 PARK ROW,  
BOROUGH OF MANHATTAN, July 19, 1901.

**PROPOSALS FOR BIDS OR ESTIMATES.**

**SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE ABOVE DEPARTMENT IN ROOM NO. 1702 AT THE ABOVE OFFICE, UNTIL 12 O'CLOCK P. M. ON**

**THURSDAY, JULY 25, 1901.**

**No. 1. FOR FURNISHING THE DEPARTMENT OF PUBLIC BUILDINGS, LIGHTING AND SUPPLIES, BOROUGHS OF MANHATTAN, WITH FOUR THOUSAND ONE HUNDRED AND TWENTY-FIVE (4,125) GROSS TONS, 2,000 POUNDS TO A TON, OF BEST WHITE ASH COAL.**

**No. 2. FOR FURNISHING THE DEPARTMENT OF PUBLIC BUILDINGS, LIGHTING AND SUPPLIES, BOROUGHS OF QUEENS, WITH SEVEN HUNDRED (700) GROSS TONS, 2,000 POUNDS TO A TON, OF THE BEST GRADES OF WHITE ASH COAL.**

The amount of security required for Contract No. 1 will be Six Thousand Dollars (\$6,000); for Contract No. 2 it will be One Thousand Dollars (\$1,000).

The contracts shall be fully performed by or before July 1, 1902.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of said Department and read, and the award of the contract made according to law as soon thereafter as practicable.

The Commissioner reserves the right to reject all bids if he deems it for the interests of the City so to do.

Each estimate shall contain the name and place of residence of such of the persons making the same, the names of all persons interested with him therein, and that no other person be so interested if it is made without any connection with any other person making a bid or estimate, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau or other officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The estimate shall be verified by the oath, in writing of the party making the same, that the several matters stated therein are in all respects true.

Bidders must state in their bids or estimates the price for which they will furnish the supplies, and this price must be written out and must be given also in figures.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No bid or estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quantity and quality of the supplies or the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the same, together with a copy of the specifications, including the specifications, to the form approved by the Corporation Council, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the said Commissioner.

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 Council, can be obtained upon application therefor in Room No. 1702, No. 25 Park Row, Borough of Manhattan.

HENRY S. KEARNEY,  
Commissioner of Public Buildings,  
Lighting and Supplies.

**FIRE DEPARTMENT.**

HEADQUARTERS, FIRE DEPARTMENT,  
NOS. 25 AND 27 PARK ROW, BOROUGHS OF MANHATTAN,  
CITY OF NEW YORK, July 19, 1901.

**TO CONTRACTORS.**

**SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE FIRE COMMISSIONER, AT THE ABOVE OFFICE OF THE FIRE DEPARTMENT, UNTIL 12 O'CLOCK P. M. ON**

**WEDNESDAY, JULY 24, 1901,**

for furnishing and delivering the following work:  
**Borough of Manhattan.**

**FOR THE ALTERATION AND REPAIR OF BUILDING LOCATED AT NO. 422 WEST THIRTY-SIXTH STREET, BOROUGHS OF MANHATTAN, CITY OF NEW YORK.**

The plans may be seen at the office of the Buildings Superintendent on the fifth floor of these Headquarters.

The time for the full performance and completion of the contract is thirty (30) days.

The security required will be One Thousand Dollars (\$1,000).

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above of the work for which the estimate is made, with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the date and hour above named, at which time and place the estimates received will be publicly opened by the head of said Department and read, and the award of the contract made according to law as soon thereafter as practicable.

Each estimate shall contain the name and place of residence of the person making the same, and the names of all persons interested with him therein, and that no other person be so interested if it is made without any connection with any other person making an estimate for the same purpose, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau, school commissioner, or other public officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The estimate shall be verified by the oath, in writing of the party making the same, that the several matters stated therein are in all respects true.

Bidders must state in their bids or estimates the price for which they will furnish the supplies, and these prices must be written out and must be given also in figures.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quantity and quality of the supplies or the nature and extent of the work required or of the materials to be furnished, bidders are referred to the printed specifications.

Bidders are requested to make their bids or estimates upon the blank prepared by the Commissioner, a copy of which, with the proper envelope in which to enclose the same, together with a copy of the specifications, including the specifications, to the form approved by the Corporation Council, and showing the manner of payment for the work, can be obtained upon application therefor at the Headquarters office of the Fire Department, in the Borough of Manhattan, New York City, where the plans, which are a part of the specifications, may be seen.

JOHN J. SCANNELL,  
Fire Commissioner.

**BOARD OF PUBLIC IMPROVEMENTS.**

BOARD OF PUBLIC IMPROVEMENTS,  
NOS. 19 TO 21 PARK ROW, BOROUGHS OF MANHATTAN, CITY OF NEW YORK, July 19, 1901.

**NOTICE IS HEREBY GIVEN THAT THE BOARD OF PUBLIC IMPROVEMENTS OF THE CITY OF NEW YORK, DEEMING IT FOR THE PUBLIC INTEREST SO TO DO,**

proposes to alter the map or plan of the City of New York by laying out and changing the grades of East One Hundred and Eighty-first street, from Andrews avenue to Aqueduct avenue, in the Borough of the Bronx, City of New York, and that a meeting of the said Board will be held in the office of the said Board, at Nos. 19 to 21 Park Row, Borough of Manhattan, on the 24th day of July, 1901, at 2 o'clock P. M., at which such proposed laying out and change of grade will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by said Board on the 3d day of July, 1901, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Public Improvements of the City of New York, in pursuance of the provisions of section 425 of chapter 378, Laws of 1897, deeming it for the public interest so to do, proposes to alter the map or plan of the City of New York by laying out and changing the grades of East One Hundred and Eighty-first street, from Andrews avenue to Aqueduct avenue, in the Borough of the Bronx, City of New York, more particularly described as follows:

"A"—East One Hundred and Eighty-first street to be laid out at a width of 60 feet from Aqueduct avenue to Andrews avenue in such a manner that the westerly line of the same will follow the southern boundary line of the grounds of the New York University.

"B"—Grades.

1. The grade at the intersection of East One Hundred and Eighty-first street and Andrews avenue to be 135 feet above high water datum.

2. The grade of Andrews avenue at a point 100 feet northerly of the northwest curb intersection to be 120 feet above high water datum.

3. The grade at the intersection of East One Hundred and Eighty-first street and Weygant place to be 24 feet above high water datum.

4. The grade at the angle point in Weygant place, south of East One Hundred and Eighty-first street, to be 127 feet above high water datum.

Resolved, That this Board consider the proposed laying out and change of grades of the above-named street at a meeting of this Board to be held in the office of this Board on the 24th day of July, 1901, at 2 o'clock P. M.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby, that the proposed laying out and change of grades of the above-named street will be considered at a meeting of this 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 24th day of July, 1901.

Dated New York, July 9, 1901.

JOHN H. MOONEY,  
Secretary.

**BOARD OF PUBLIC IMPROVEMENTS.**

BOARD OF PUBLIC IMPROVEMENTS OF THE CITY OF NEW YORK, DEEMING IT FOR THE PUBLIC INTEREST SO TO DO,

proposes to alter the map or plan of the City of New York by laying out and changing the grades of East One Hundred and Eighty-first street, from Andrews avenue to Aqueduct avenue, in the Borough of the Bronx, City of New York, and that a meeting of the said Board will be held in the office of the said Board, at Nos. 19 to 21 Park Row, Borough of Manhattan, on the 24th day of July, 1901, at 2 o'clock P. M., at which such proposed laying out and change of grade will be considered by said Board; all of which is more particularly set forth and described in the following resolutions, adopted by said Board on the 3d day of July, 1901, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Public Improvements of the City of New York, in pursuance of the provisions of section 425 of chapter 378, Laws of 1897, deeming it for the public interest so to do, proposes to alter the map or plan of the City of New York by laying out and changing the grades of East One Hundred and Eighty-first street, from Andrews avenue to Aqueduct avenue, in the Borough of the Bronx, City of New York, more particularly described as follows:

"A"—In relation to laying out Pellington place, from Bushwick avenue and Pellington place, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York, more particularly described as follows:

"A"—In relation to laying out Pellington place, from Bushwick avenue and Pellington place, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York, more particularly described as follows:

"B"—In relation to laying out Evergreen place, from Bushwick avenue and Pellington place, in the Twenty-sixth Ward, Borough of Brooklyn, City of New York, more particularly described as follows:

Grades to be as follows:

"A"—Pellington Place.

At the intersection of the southern side line of Highland boulevard and 90th St.

At a point 200 feet northerly from the northwest curb corner of Bushwick avenue 75.0 feet.

"B"—Evergreen Place.

At the intersection of Evergreen place 75.0 feet.

At the intersection of Jamaica avenue 65.0 feet.

"C"—Avergreen Place.

At the intersection of New Jersey avenue 75.0 feet.

At a point 200 feet westerly from the western curb line of New Jersey avenue 61.8 feet.

All elevations refer to mean high-water datum as established by the Department of Highways, Borough of Brooklyn.

Resolved, That this Board consider the proposed laying out and change of grades of the above-named territory at a meeting of this Board to be held in the office of this Board on the 24th day of July, 1901, at 2 o'clock P. M.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby, that the proposed laying out and change of grades of the above-named territory will be considered at a meeting of this Board to be held at the above said time and place, to be published in the City Record and corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 24th day of July, 1901.

Dated New York, July 9, 1901.

JOHN H. MOONEY,  
Secretary.

**BOARD OF ELECTIONS.**

BOARD OF ELECTIONS OF THE CITY OF NEW YORK,  
NOS. 25 AND 27 PARK ROW.

**TO STATIONERS, PRINTERS AND CONTRACTORS.**

**PROPOSALS FOR BIDS OR ESTIMATES.**

**SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE ABOVE-NAMED BOARD OF ELECTIONS OF THE CITY OF NEW YORK, AT THE GENERAL OFFICE OF THE BOARD OF ELECTIONS, NOS. 25 PARK ROW, IN THE CITY OF NEW YORK, UNTIL 2 O'CLOCK P. M. ON**

**WEDNESDAY, JULY 24, 1901.**

**FOR FURNISHING STATIONERY, PRINTING AND SUPPLIES FOR ELECTION PURPOSES.**

The amount of security required is Twenty Thousand Dollars.

The contract must be completed and the work and materials for the Primary Election must be delivered on or before August 25, 1901, for the General Election on or before October 7, 1901.

The right is reserved by the Board to reject any or all bids if they shall deem it for the interest of the Corporation so to do.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired are, by a clause in the contract, fixed and liquidated at ONE HUNDRED DOLLARS PER DAY.

Bidders must state in writing, and also in figures, a price for the whole work complete, which price is to cover the furnishing of all necessary materials and labor and the performance of all the work set forth in the specifications and form of agreement.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed with the title given above, of the work for which the estimate is made, with his or their name or names, and the date of presentation, to the Board of Elections, at the said office, on or before the date and hour above named, and which time and place the estimates received will be publicly opened by the said Board, and in its presence, and read, and the award of the contract made according to law.

Each 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 that no other person be so interested if it is made without any connection with any other person making a bid or estimate, and that no member of the Municipal Assembly, head of a department, deputy thereof or clerk therein, chief of a bureau or other officer of the City of New York is directly or indirectly interested therein, or in any part of the work or supplies to which it relates, or in any portion of the profits thereof, as principal, surety or otherwise.

The estimate shall be verified by the oath, in writing of the party making the same, that the several matters stated therein are in all respects true.

Bidders must state in their bids or estimates the price for which they will furnish the supplies, and this price must be written out and must be given also in figures.

Each bid or estimate must 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 a surety, and shall contain the matters set forth in the blank form of bid mentioned below.

No estimate will be received or considered unless accompanied by a certified check 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 further particulars as to the quantity and quality of the supplies, or the nature and extent of the work required, or of the materials to be furnished, bidders are referred to the printed specifications and to the samples exhibited.

Bidders are requested to make their bids or estimates upon the blank prepared for that purpose by the Board of Elections, a copy of which, and also the proper envelope in which to enclose the same, together with the form of agreement, including specifications,



the point or place of beginning, as such streets are shown upon the final maps and profiles of the Twenty-third and Twenty-fourth Wards of The City of New York, excepting from said area all streets, avenues and roads or portions thereof heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 17th day of September, 1901, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated Borough of Manhattan, New York City, June 26, 1901.

WM. E. COZIER, Chairman, PATRICK MAKEY, Commissioners.

John P. Dunn, Clerk.

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 SEDEWICK AVENUE, although not yet named by proper authority, from Jerome avenue to the northern line of the public park laid out under chapter 70 of the Laws of 1897, in the Twenty-third Ward of The City of New York, in the Borough of the Bronx, as the same has been heretofore laid out and designated as a first-class street or road.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 27th day of July, 1901, and that we, the said Commissioners, will hear motions, if any, and for that purpose will be in attendance at our said office on the 30th day of July, 1901, at 10 o'clock a. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making our report, have been deposited in the Bureau of Street Openings of 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 31st day of August, 1901.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Manhattan, in The City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the westerly prolongation of the middle line of the block between Vestry street and Desbrosses street with the United States pierhead line, on the easterly side of the Hudson river, running thence northerly along said United States pierhead line to its intersection with the westerly prolongation of the middle line of the block between Hamilton street and Spring street; thence easterly along said westerly prolongation and middle line of the block and its prolongation easterly to its intersection with the southerly prolongation of the middle line of the block between Sullivan street and MacDougal street; thence northerly along said southerly prolongation and middle line of the block to the middle line of the block between Prince street and Houston street; thence westerly along said middle line of the block to the middle line of the block between Broadway and Crosby street; thence southerly along said middle line of the block to the middle line of the block between Spring street and Prince street; thence easterly along said middle line of the block to its intersection with the northerly prolongation of a line drawn parallel to and distant 100 feet easterly from the easterly side of that part of Elm street extending from Grand street to Jerome street; thence southerly along said northerly prolongation and parallel line and its continuation parallel to the easterly side of Elm street to its intersection with a line drawn parallel to the southerly side of Grand street and distant 175 feet southerly therefrom; thence westerly along said parallel line to the easterly side of Broadway; thence westerly to the intersection of the westerly side of Broadway with a line drawn parallel to the southerly side of Grand street and distant 100 feet southerly therefrom; thence westerly along said parallel line and its prolongation westerly to its intersection with the westerly prolongation of the middle line of the block between Desbrosses street and Vestry street; thence westerly along said easterly prolongation and middle line of the block and its prolongation westerly to the point of beginning, extending from said aforesaid streets, avenues and roads or portions thereof heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 17th day of September, 1901, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

proper authority), from Sullivan street to West Broadway, at Broome street, as the same has been heretofore laid out and designated as a first-class street or road, in the Eighth Ward of The City of New York.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 27th day of July, 1901, and that we, the said Commissioners, will hear motions, if any, and for that purpose will be in attendance at our said office on the 30th day of July, 1901, at 10 o'clock a. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making our report, have been deposited in the Bureau of Street Openings of 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 31st day of August, 1901.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Manhattan, in The City of New York, which, taken together, are bounded and described as follows, viz.: Beginning at a point formed by the intersection of the westerly prolongation of the middle line of the block between Vestry street and Desbrosses street with the United States pierhead line, on the easterly side of the Hudson river, running thence northerly along said United States pierhead line to its intersection with the westerly prolongation of the middle line of the block between Hamilton street and Spring street; thence easterly along said westerly prolongation and middle line of the block and its prolongation easterly to its intersection with the southerly prolongation of the middle line of the block between Sullivan street and MacDougal street; thence northerly along said southerly prolongation and middle line of the block to the middle line of the block between Prince street and Houston street; thence westerly along said middle line of the block to the middle line of the block between Broadway and Crosby street; thence southerly along said middle line of the block to the middle line of the block between Spring street and Prince street; thence easterly along said middle line of the block to its intersection with the northerly prolongation of a line drawn parallel to and distant 100 feet easterly from the easterly side of that part of Elm street extending from Grand street to Jerome street; thence southerly along said northerly prolongation and parallel line and its continuation parallel to the easterly side of Elm street to its intersection with a line drawn parallel to the southerly side of Grand street and distant 175 feet southerly therefrom; thence westerly along said parallel line to the easterly side of Broadway; thence westerly to the intersection of the westerly side of Broadway with a line drawn parallel to the southerly side of Grand street and distant 100 feet southerly therefrom; thence westerly along said parallel line and its prolongation westerly to its intersection with the westerly prolongation of the middle line of the block between Desbrosses street and Vestry street; thence westerly along said easterly prolongation and middle line of the block and its prolongation westerly to the point of beginning, extending from said aforesaid streets, avenues and roads or portions thereof heretofore legally opened, as such area is shown upon our benefit maps deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I, to be held in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 17th day of September, 1901, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated Borough of Manhattan, New York City, June 26, 1901.

FREDERICK E. SMITH, Chairman, CHAS. FUZZI, FRANCIS V. OLIVER, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening ANNA PLACE (although not yet named by proper authority), from Brook avenue to Webster avenue, as the same has been heretofore laid out and designated as a first-class street or road, in the Twenty-third Ward of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

EDW. BROWNE, CARL MAXHOFF, Commissioners.

John P. Dunn, Clerk.

SECOND JUDICIAL DISTRICT.

In the matter of the application of the Board of Public Improvements of The City of New York, by the Corporation Counsel, relative to acquiring title by The City of New York, for the use of the public, to certain lands on VERNON AVENUE and ROGERS AVENUE and the East river, in the Borough of Queens, in The City of New York, duly selected according to law with other lands as a site for the construction and permanent location of a suspension bridge over the East river, between the Boroughs of Manhattan and Queens, in The City of New York, known as Bridge No. 4.

PURSUANT TO THE STATUTES IN SUCH case made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term thereof for the hearing of motions, to be held in and for the County of Kings, at the County Court-house, in the

Borough of Brooklyn, in The City of New York, on the 25th day of July, 1901, 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 in the above-entitled matter.

The nature and extent of the improvement hereby included in the acquisition by The City of New York, for the use of the public, of title in fee to certain lands situated in the Borough of Queens, in The City of New York, for the purpose of the construction, maintenance and operation of a bridge over the East river, from the Borough of Manhattan to the Borough of Queens, and the approaches thereto, duly selected according to law for said purpose, known as Bridge No. 4.

The property taken in this proceeding is for the pier and anchor span of the bridge in the Borough of Queens, and the lands required therefor are described by names and bounds as follows, namely:

PARCEL NO. 1.

Beginning at a point on the easterly side of Vernon avenue distant one hundred and twenty-five (125) feet from the intersection formed by the southerly side of Rogers avenue with the easterly side of Vernon avenue; running thence southerly along the easterly side of Vernon avenue two hundred (200) feet; thence easterly and at right angles to Vernon avenue one hundred (100) feet; thence northerly and parallel with Vernon avenue two hundred (200) feet to the point of beginning. The same being lots known as 25, 26, 27, 28, 29, 30 and 31, Block 101, on the assessment map of the First Ward, Long Island City, of the Borough of Queens.

PARCEL NO. 2.

Beginning at a point on the westerly side of Vernon avenue distant one hundred and fifty and sixty-eight hundredths (156.68) feet southerly from the intersection formed by the southerly side of Rogers avenue with the westerly side of Vernon avenue and running thence south thirty-three degrees fourteen minutes and ten seconds west (S. 33° 14' 10" W.) along the westerly side of Vernon avenue one hundred and sixty and thirty-eight hundredths (160.38) feet; thence north sixty degrees seventeen minutes and thirty seconds west (N. 60° 17' 30" W.) two hundred and seventy-five and forty-four hundredths (275.44) feet; thence south twenty-two degrees thirty-two minutes and thirty seconds west (S. 22° 32' 30" W.) twenty and forty-five hundredths (20.45) feet to line of property belonging to the New York Architectural Terra Cotta Company; thence north fifty-five degrees forty-two minutes and forty seconds west (N. 55° 42' 40" W.) along the line of property belonging to the New York Architectural Terra Cotta Company two hundred and forty-one and seventy-two hundredths (241.72) feet to the bulkhead and pier line, as approved by the Secretary of War in June, 1877; thence north thirty-two degrees twelve minutes and fifty-nine seconds east (N. 32° 12' 59" E.) along the bulkhead and pier line one hundred and seventy-one and thirty degrees, seventeen minutes and thirty seconds east (S. 69° 17' 30" E.) two hundred and thirty-three and fifty-one hundredths (233.85) feet; thence south twenty-two degrees thirty-two minutes and thirty seconds west (S. 22° 32' 30" W.) ten (10) feet; thence south sixty degrees seventeen minutes and thirty seconds east (S. 60° 17' 30" E.) two hundred and eighty-five and forty-five hundredths (285.45) feet to the point of beginning.

The parcels of land above described are shown in similar maps of plans entitled "City of New York, Department of Bridges, Bridge over East River, between Manhattan and Queens, Property Required in the Borough of Queens," and filed, one in the office of the Clerk of the County of Queens on the 7th day of March, 1901, and the other in the office of the Board of Public Improvements of The City of New York on the 7th day of March, 1901.

Dated New York, July 10, 1901.

JOHN WHALEN, Corporation Counsel, No. 2 Truitt Row, Borough of Manhattan, City of New York.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening CROTONA AVENUE (although not yet named by proper authority), from Boston road to the Southern Boulevard, as the same has been heretofore laid out and designated as a first-class street or road, in the Twenty-third and Twenty-fourth Wards of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

EMANUEL BLUMENSTIEL, JAMES O. FARRELL, WILLIS FOWLER, Commissioners.

John P. Dunn, Clerk.

SECOND DEPARTMENT.

In 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 of A NEW STREET (although not yet named by proper authority), between Richmond turnpike and Ward avenue, in the Second Ward, Borough of Richmond, City of New York.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by an order of the Supreme Court bearing date the 20th day of May, 1901, and duly entered in the office of the Clerk of the County of Richmond, at his office in the Borough of Richmond, in The City of New York, on the 6th day of June, 1901, Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate and assessment of the loss and damage, if any, or of the benefit and advantage, if any, as the case may be, to the respective owners, lessors, parties and persons respectively entitled to or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening the above-mentioned street or avenue, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of Richmond on the 6th day of June, 1901, and a just and equitable estimate and assessment of the value of the benefit and advantage of said street or avenue so to be opened or laid out and formed to the respective owners, lessors, parties and persons respectively entitled to or interested in the said respective lands, tenements, hereditaments and premises not

required for the purpose of opening, laying out and forming the same, but benefited thereby, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 17, title 4 of the Greater New York Charter, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, or having any interest therein, are hereby notified, to us, the undersigned, Commissioners of Estimate and Assessment, at our office, ninth floor, Nos. 90 and 92 West Broadway, Borough of Manhattan, in The City of New York, with such affidavit or other proof as the said owners or claimants may desire, within twenty days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 17th day of July, 1901, at 10 o'clock in the forenoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto, and examine the proofs of such claimants or claimants, or such additional proofs and allegations as may then be offered by such owner or owners on behalf of The City of New York.

Dated Borough of Manhattan, New York City, June 30, 1901.

GEO. M. PINNEY, JR., JAMES BURKE, JR., CHARLES S. DALRY, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening JOHNSON AVENUE (although not yet named by proper authority), from the Spuyten Duyvil parkway, near the Spuyten Duyvil Station, to the Spuyten Duyvil road, as the same has been heretofore laid out and designated as a first-class street or road, in the Twenty-fourth Ward of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

EDW. BROWNE, EDWARD B. WHITNEY, JOHN MURPHY, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening MOUNT VERNON AVENUE (although not yet named by proper authority), from Jerome avenue to the northern boundary of The City of New York, as the same has been heretofore laid out and designated as a first-class street or road, in the Twenty-fourth Ward of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

EDW. BROWNE, JOHN J. QUINLAN, JOHN DE WITT WARNER, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening WEST ONE HUNDRED AND SEVENTY-FIRST STREET (although not yet named by proper authority), between Kingsbridge road and Haven avenue, as the same has been heretofore laid out and designated as a first-class street or road, in the Twelfth Ward of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

EDW. BROWNE, JOHN J. QUINLAN, JOHN DE WITT WARNER, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening WEST ONE HUNDRED AND SEVENTY-FIRST STREET (although not yet named by proper authority), between Kingsbridge road and Haven avenue, as the same has been heretofore laid out and designated as a first-class street or road, in the Twelfth Ward of 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, up to and including the 31st day of May, 1901, 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 in the County Court-house, in the Borough of Manhattan, in The City of New York, on the 24th day of July, 1901, 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 the provisions of section 999 of title 4 of chapter 17 of the Laws of 1897.

Dated Borough of Manhattan, New York, July 11, 1901.

GEO. C. DE LACY, W. A. GRAMER, JAMES P. CONWAY, Commissioners.

John P. Dunn, Clerk.

FIRST DEPARTMENT.

In the matter of the application of The Mayor, Aldermen and Commonalty 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 purpose of opening WATTS STREET (although not yet named by